

Case. Number.

44 68

Application,
Transcripts.

Sm all Exhibts.

ETC.

dearnley-meier reporting services, inc.

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

209 SIMAS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
December 2, 1970

EXAMINER HEARING

IN THE MATTER OF:

Application of Continental Oil
Company for a dual completion and
water injection, Lea County, New
Mexico.

Case No. 4468

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

I N D E X

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MR. NUTTER: Case 4468.

MR. HATCH: Application of Continental Oil Company for a dual completion and water injection, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa Fe, appearing for the Applicant and we have one witness I would like to have sworn.

(Witness sworn.)

VICTOR T. LYON

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A Victor T. Lyon, L-Y-O-N.

Q By whom are you employed and in what position?

A I am employed by Continental Oil Company as conservation coordinator in the Hobbs Division Office.

Q Have you testified before the Oil Conservation Commission and made your qualifications a matter of record?

A Yes, I have.

MR. KELLAHIN: Are the witnesses qualifications acceptable?

MR. NUTTER: Yes, they are.

Q (By Mr. Kellahin) Are you familiar with the Application of Continental Oil Company in Case 4468?

A Yes, sir.

Q Will you state what is sought by the Applicant in this case?

A Case 4468 is the Application of Continental Oil Company for authority to convert a dual completion on our Langlie Jack Well No. 16 for water injection in the Langlie Jack Unit waterflood project located in Section 21, Township 24 South, Range 37 East, Lea County, New Mexico.

Q And the Langlie Jack water injection program is a program that has been approved by this Commission, has it not?

A Yes, sir, it has been approved by Order R-3269.

Q Now, referring to what is marked Exhibit No. 1, would you identify that Exhibit?

A Yes, sir, Exhibit No. 1 is a location plat showing the Langlie Jack Unit outlined with the dashed line. The subject well No. 16 is inscribed with a red triangle located in Unit M of Section 21, Township 24 South, Range 37 East. It shows injection wells in the project as well as injection wells in the nearby area by triangles, shows the location

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of wells and the ownership thereof within the nearby area approximately a two mile radius.

Q Is that the same Exhibit that was attached to the Application filed in this case?

A Yes, it is and I am short of those Exhibits. I would appreciate it if the Commission would utilize those that were attached to the Application?

MR. NUTTER: They are identical to those?

A Yes, sir, they are identical.

Q (By Mr. Kellahin) Now, referring to what is marked Exhibit No. 2, would you identify that?

A Exhibit No. 2 is a schematic diagram of the well as it has been equipped since this work has already been done and this has been changed slightly, Mr. Examiner, and there are additional copies. This has been changed from what was attached to the Application to show the actual setting depth of the tubular goods and packer.

MR. NUTTER: This Exhibit No. 2 attached to the Application it is amended?

A Yes, it is. It shows that we have 2-inch nominal tubing, plastic lined, for injection set in a packer at 3258 with tailpipe extending to a depth of 3528. Tailpipe is fiberglass. There is also one-half inch intrigul joint

tubing string for gas production set at 4239.

Q So the injection will be accomplished through internally coated tubing?

A Let me correct myself. That is 2 and 1/16 inch O.D. integral joint tubing rather than 2-inch nominal but it is plastic coated.

Q Is that a type of dual completion that has been approved for purposes of production and ordered for injection by the Commission?

A Yes, it is. The Pan American well which is designated Langlie Jack Unit No. 10 is so completed.

Q Now, referring to what is marked as Exhibit No. 3, would you identify that Exhibit?

A Exhibit No. 3 is a copy of the radio active log run in the well and here again this is slightly modified to what was attached to the Application in order to show the entire completion interval in both zones.

Q That information has been marked on the Exhibit?

A No, it has not.

Q What is the source of water that will be injected in this well?

A The water consists of that purchased from Skelly Water System and produced from water from this unit and

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nearby wells which are commingled and are presently being injected in the wells in the Langlie Jack waterflood project.

Q The same type of water presently utilized?

A Yes.

Q And produced water from the Langlie Jack?

A Yes.

Q What volume of water do you anticipate to inject in this well?

A We have performed tests and it indicated daily injection of 544 barrels per day during the month of October.

Q What pressure did you encounter in making that injection?

A 1100 pounds.

Q Is that about the pressure you have encountered in the other wells in the project?

A Yes, sir. We anticipate the maximum will be 1500 pounds and the maximum volumes 600 barrels per day.

Q Now, is the conversion of the Well No. 16 to water injection essential to completion of your injection pattern in this particular area?

A Yes, it is. We need to close the injection pattern around Well No. 15 which is a direct west offset.

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Q And will the completion of the well for injection and for the production of gas be in the interest and conservation and prevention of waste?

A Yes, it will. It should considerably improve the waterflood efficiency in that area.

Q And will also enable you to recover gas from the producing formation?

A Correct.

Q Were Exhibits 1 through 3 prepared by you or under your supervision?

A Yes, they were.

MR. KELLAHIN: I would like to offer into evidence Exhibits 1 through 3.

MR. NUTTER: Continental's Exhibits 1 through 3 will be admitted in evidence.

(Whereupon, Continental's Exhibits 1 through 3 were admitted in evidence.)

CROSS EXAMINATION

BY MR. NUTTER:

Q Does this well produce water from the gas from the Yates?

A I have no knowledge of any water that is produced

in there. I don't believe we have a separator on the well.

Q In the event of leakage from the water injection in the well either through tubing or packer you would be able to determine this leakage by an increase in water production from the Yates?

A Very readily.

MR. NUTTER: Any further questions of Mr. Lyon?
You may be excused. Anything further, Mr. Kellahin?

MR. KELLAHIN: That is all.

MR. NUTTER: If there is nothing further in Case 4468 the case will be taken under advisement.

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STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

I, SOVEIDA GONZALES, 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 State Oil Conservation Commission was reported by me and that the same is a true and accurate record of the said proceedings, to the best of my knowledge, skill and ability.

Soveida Gonzales
COURT REPORTER

I do hereby certify that the foregoing is a complete record of the proceedings in the Bernalier hearing of Case No. 4468, agreed by me on 12/2, 1972.

Soveida Gonzales, Reporter
New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87201

GOVERNOR
DAVID P. CARGO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

December 8, 1970

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 4468
4469
Order No. R-4075 & R-4076
Applicant:
Continental & Anadarko

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

Astec OCC

Other R-4075 - State Engineer Office

R-4076 - Unit Division - State Land Office

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. 4468
Order No. R-4075

APPLICATION OF CONTINENTAL OIL COMPANY
FOR A DUAL COMPLETION AND WATER INJECTION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 2, 1970, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 8th day of December, 1970, 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, Continental Oil Company, seeks authority to dually complete its Langlie Jack Unit Well No. 16, located in Unit M of Section 21, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of gas from the Jalmat Gas Pool in the perforated interval from approximately 3000 feet to 3200 feet through 1 1/2-inch tubing, and to permit the injection of water for secondary recovery purposes into the Langlie-Mattix Pool in the open-hole interval from approximately 3269 feet to 3567 feet through a parallel string of 2 1/16-inch plastic-lined tubing, with separation of the zones by a packer set at approximately 3258 feet.

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

-2-

CASE No. 4468
Order No. R-4075

(5) That approval of the proposed dual completion will prevent the drilling of unnecessary wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Continental Oil Company, is hereby authorized to dually complete its Langlie Jack Unit Well No. 16, located in Unit M of Section 21, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of gas from the Jalmat Gas Pool in the perforated interval from approximately 3000 feet to 3200 feet through 1 1/2-inch tubing, and to permit the injection of water for secondary recovery purposes into the Langlie-Mattix Pool in the open-hole interval from approximately 3269 feet to 3567 feet through a parallel string of 2 1/16-inch plastic-lined tubing, with separation of the zones by a packer set at approximately 3258 feet.

(2) That the applicant shall submit monthly reports of its injection operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) 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. ARMIJO, Member


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


esr

- CASE 4468: Application of Continental Oil Company for a dual completion and water injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Langlie Jack Unit Well No. 16 located in Unit M, Section 21, Township 24 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of gas from the Jalmat Gas Pool and the injection of water into the Langlie-Mattix Pool for secondary recovery purposes through parallel strings of tubing.
- CASE 4469: Application of Anadarko Production Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Teas Yates Unit Area comprising 1200 acres, more or less, of Federal lands in Township 20 South, Ranges 33 and 34 East, Lea County, New Mexico.
- CASE 4470: Application of Anadarko Production Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Teas Yates Unit Area, Teas Yates-Seven Rivers Pool, Lea County, New Mexico, by the injection of water through ten wells into the Yates formation.
- CASE 4471: Application of H. L. Brown, Jr. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill an undesignated Morrow test well at an unorthodox gas well location 660 feet from the South line and 1980 feet from the East line of Section 19, Township 19 South, Range 30 East, Eddy County, New Mexico. The E/2 of said Section 19 would be dedicated to said well.

DOCKET: EXAMINER HEARING - WEDNESDAY - DECEMBER 2, 1970

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

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

CASE 4436: (Continued from the October 14, 1970, Examiner Hearing)

Application of El Paso Natural Gas Company for the amendment of the General Rules and Regulations governing the prorated gas pools of New Mexico and the amendment of the Special Rules and Regulations governing the Tapacito-Pictured Cliffs and Basin-Dakota Gas Pools located in Rio Arriba, San Juan, and Sandoval Counties, New Mexico. Applicant, in the above-styled cause, seeks the amendment of the General Rules and Regulations governing the prorated gas pools of Northwest and Southeast New Mexico and the Special Rules and Regulations governing the Tapacito-Pictured Cliffs and Basin-Dakota Gas Pools located in Rio Arriba, San Juan, and Sandoval Counties, to permit substantial changes in the method of classifying marginal wells, and the assignment of allowable to marginal wells governed by the aforesaid rules and regulations, as well as a substantial change in the balancing of production procedure required by said rules. Copies of the proposed amendments will be circulated by way of the Commission's general mailing list and will be available upon request made to the Commission at its Santa Fe office.

CASE 4465: In the matter of the hearing called by the Oil Conservation Commission on its own motion to consider the revision of Rule 1216 of the Commission Rules and Regulations to permit matters involving the limiting of total production of gas from a gas pool to be heard before an examiner.

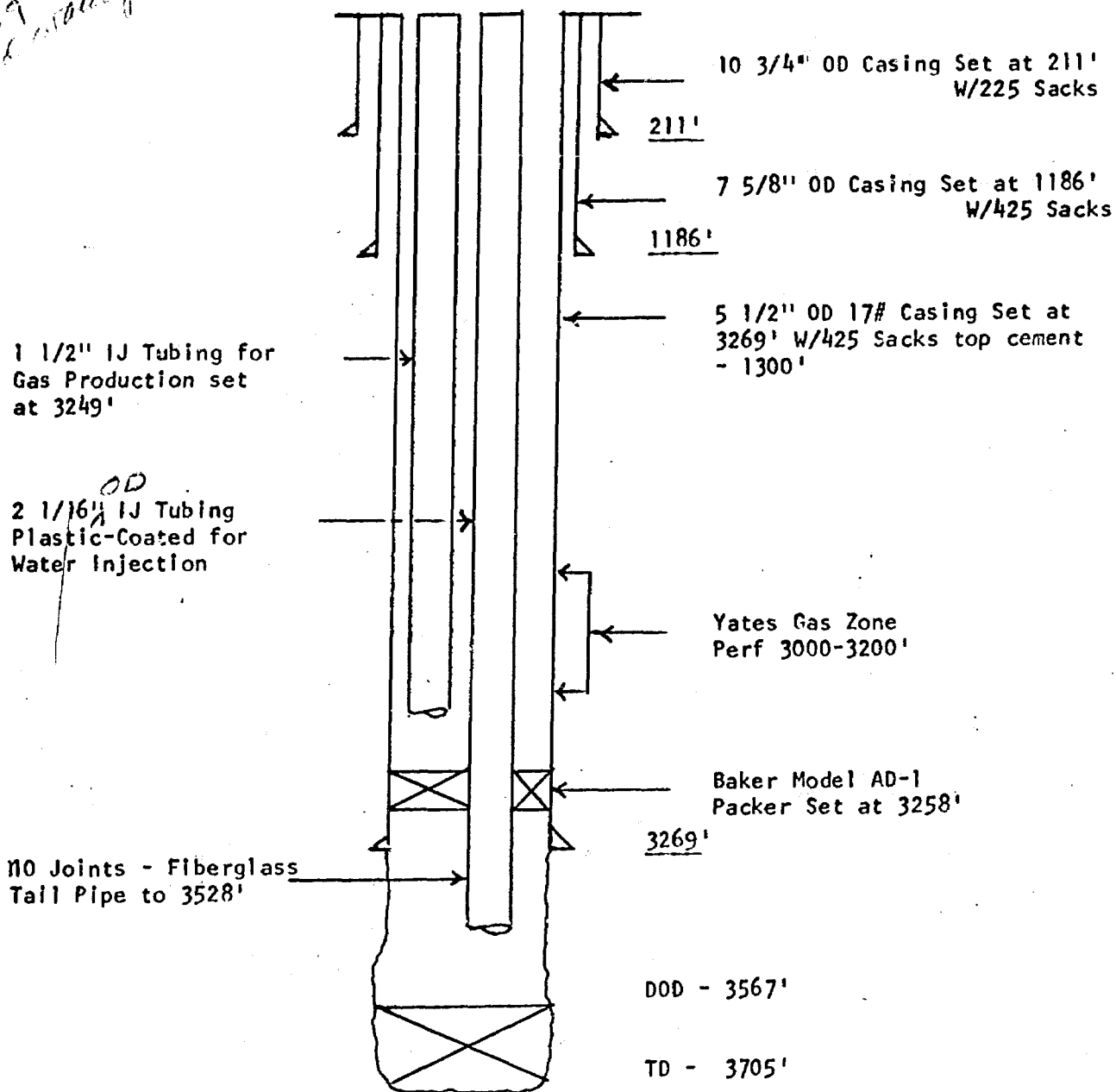
CASE 4466: Application of Reserve Oil and Gas Company for a non-standard gas proration unit and dual dedication of acreage, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the NW/4 of Section 17, Township 25 South, Range 37 East; Jalmat Gas Pool, Lea County, New Mexico, to be dually dedicated to its Woolworth "B" Well No. 1, a gas well, located 330 feet from the North line and 990 feet from the West line of said Section 17, and to Jalmat oil wells in said quarter section.

CASE 4467: Application of Gulf Oil Corporation for commingling of production, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rules 303 and 309 of the Commission Rules and Regulations to commingle, prior to measurement, production from the Hobbs (Grayburg-San Andres) and Hobbs-Blaine Pools on its W. D. Grimes NCT-B Lease in Section 33, Township 18 South, Range 38 East, Lea County, New Mexico. Applicant further seeks authority to commingle, prior to measurement, the aforesaid production with the Hobbs (Grayburg-San Andres) production from its W. D. Grimes NCT-A Lease in Section 32, said Township and Range. Allocation of production to each lease and pool would be on the basis of well tests.

LANGLIE JACK UNIT NO. 16

Well-Bore Diagram for Conversion to Water Injection
 Zero Elev - 3247 - 10' above Cement Floor
 Unit H - Sec. 21 - T-24S - R-37E

*R 3269
 approved water flood*



BEFORE EXAMINATION	DATE
CHL	2
Exploration	4468



CONTINENTAL OIL COMPANY

P. O. Box 460
HOBBS, NEW MEXICO 88240

November 3, 1970

PRODUCTION DEPARTMENT
HOBBS DIVISION
L. P. THOMPSON
Division Manager
G. C. JAMIESON
Assistant Division Manager

1001 NORTH TURNER
TELEPHONE 393-4141

New Mexico Oil Conservation Commission (3)
P. O. Box 2088
Santa Fe, New Mexico

Attention Mr. A. L. Porter, Jr.,
Secretary-Director

Gentlemen:

Subject: Application of Continental Oil Company for
Administrative approval to convert to water
injection its Langlie Jack Unit Well No. 16
located in Unit M, Section 21, Township 24-S
R-37E, Lea County, New Mexico

Continental Oil Company respectfully requests administrative
approval under the provisions of state wide rule 701E to convert its
Langlie Jack Unit Well No. 16 to water injection in its Langlie Jack
Unit Waterflood Project in the Langlie Mattix Oil Pool, Lea County,
New Mexico, and in support thereof, submits the following information.

1. Langlie Jack Unit No. 16 is a Jalmat Gas-Langlie Mattix
Oil dual completion, approved by order No. MC-1800, located
660' from the south line, 660' from the west line of Section 21
Township 24-S, R-37E, Lea County, New Mexico.
2. The Langlie Jack Unit was approved by order No. R-3268
and the waterflood project in the Langlie Mattix Pool was
approved by order No. R-3269.
3. The attached plat, marked Exhibit 1, shows the proposed
injection well and the location and ownership of wells in
the nearby area.
4. The attached diagram, marked Exhibit 2, shows schematically
the manner in which the well is equipped for injection. A
copy of the log is attached and marked Exhibit 3.

DOCKET MAILED

Date 11-19-70

New Mexico Oil Conservation Commission
Page 2
November 3, 1970

5. The well is a direct offset to Langlie Jack Unit Well No. 15 which has responded to water injection as shown by the attached form C-116, marked Exhibit 4. Well No. 15 was shut-in prior to commencement of the waterflood project.

6. It is proposed to inject a maximum of 600 barrels per day into the well. The injection water is being purchased from an outside supplier and consists of water produced from the Seven Rivers Reef. Water produced from the Langlie Jack Unit and nearby leases is also being reinjected into the injection wells in the project area. Maximum injection pressure is anticipated to be 1500 psi.

7. Injection of water into the Langlie Mattix interval in this well will result in the recovery of additional oil and therefore is in the interest of preventing waste and will not impair correlative rights.

In view of the facts stated above it is respectfully requested that administrative approval be granted under rule 701E to convert to water injection the Langlie Jack Unit Well No. 16 as proposed above.

Yours very truly,



LPT-RW

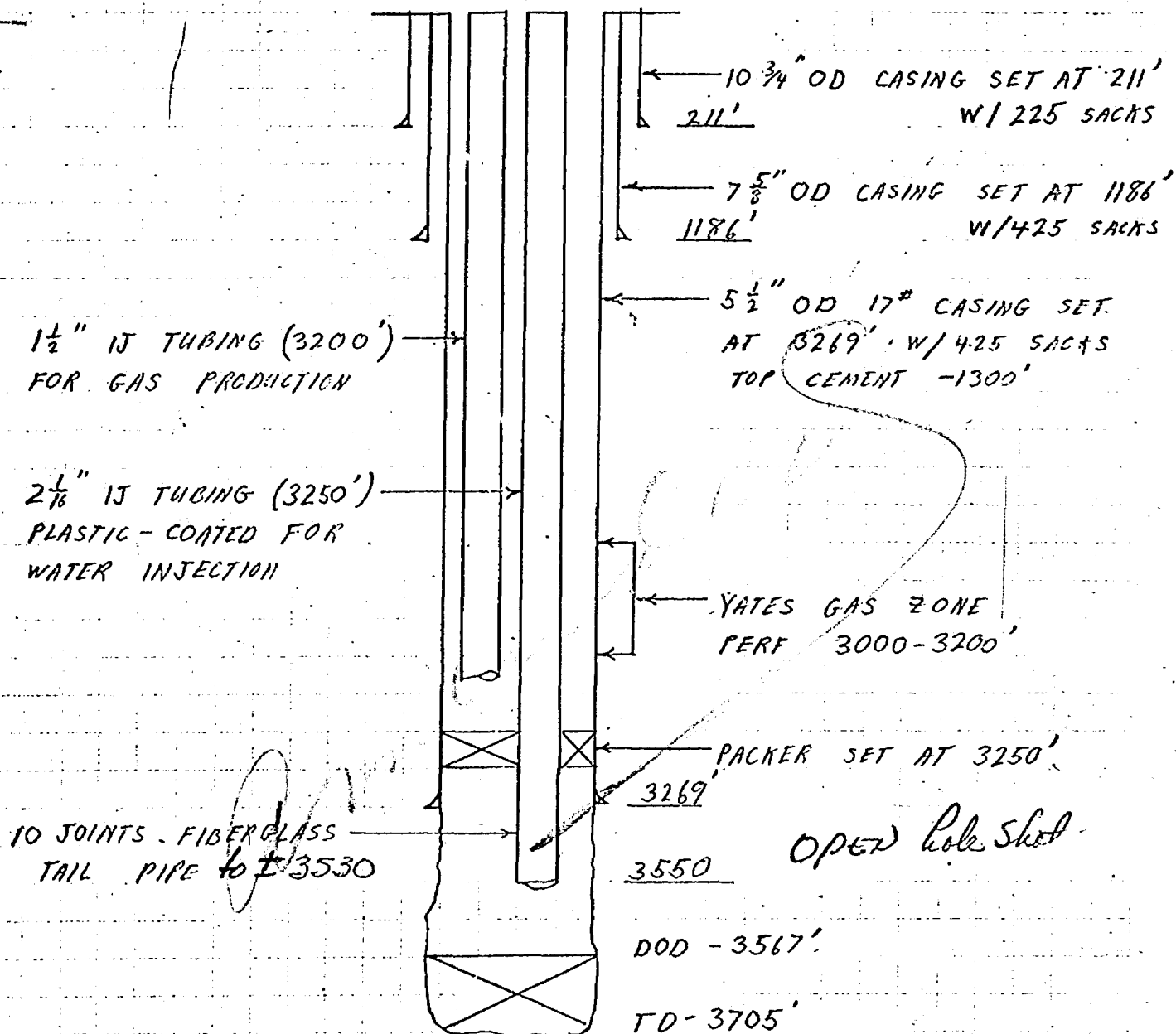
CC: NMOCC - Hobbs
USGS -Hobbs
RLA, JJB, JWK,
Atlantic Richfield Company
Chevron Oil Company
Pan American Petroleum Corporation
Offset Operators:
Texaco Inc.
Shell Oil Company
Amerada Hess Petroleum Company

LANGLIE JACK UNIT NO. 16

(PROPOSED WELL-BORE DIAGRAM FOR W1)

ZERO ELEV - 3247 - 10' ABOVE CEMENT FLOOR

(SEC 21 - T24S - R37E)



DESIGNED BY... DJ

CHECKED BY...

DATE... 6/25/76

PAGE... 01

CONTINENTAL OIL COMPANY
CALCULATION SHEET

JOB NO.

FIELD... ..

STATE... ..

EXHIBIT

2

Case 4468

SCHLUMBERGER

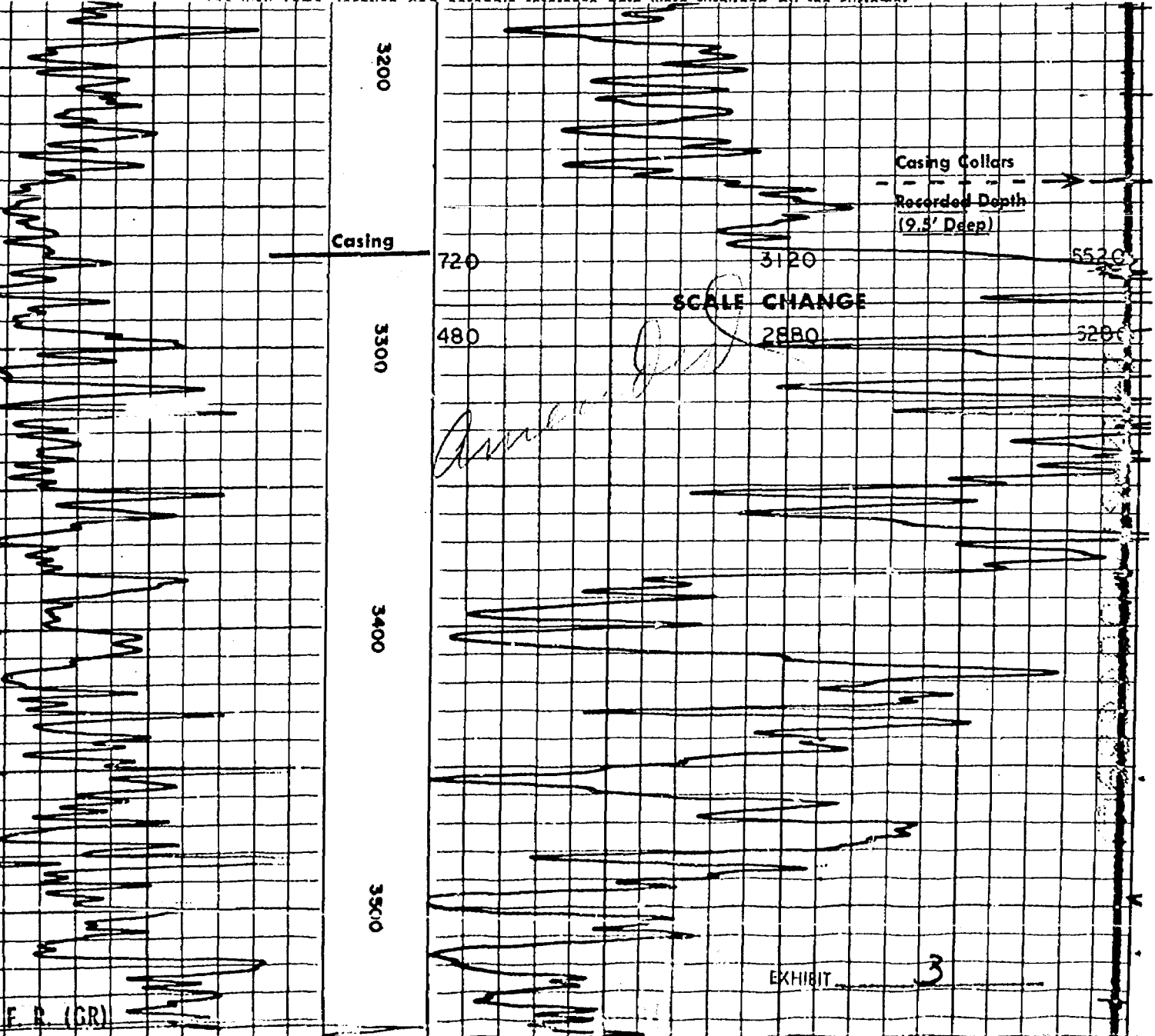
WELL LOG

COUNTY LEA
FIELD or LOCATION JALMAT
WELL JACK A-21 NO. 1
COMPANY CONTINENTAL OIL COMPANY

COMPANY CONTINENTAL OIL COMPANY
WELL JACK A-21 NO. 1
FIELD JALMAT
COUNTY LEA STATE NEW MEXICO
Location: 6601 FSL & FWL
Sec. 21 Twp. 24-S Rge. 37-E
Other Services: CALIPER
Elev.: 3247
Log Measured From: *
Drilling Measured From: *
Elev.: K.B.
D.F.
G.L.

Date	12-6-67
Run No.	TWO
Type Log	GRN
Depth—Driller	3560
Depth—Logger	3570 (SEE NOTE)
Bottom logged interval	3548
Top logged interval	2850
Type fluid in hole	WATER & OIL
Salinity, PPM Cl.	
Density	
Level	
Max rec. temp, deg F.	
Operating rig time	16 HOURS
Recorded by	OLSON
Witnessed by	GLOVER

RUN	BORE-HOLE RECORD		CASING RECORD				
Nc.	Bit	From	To	Size	Wgt.	From	To
2	4 3/4	3267	T.D.	5.5	17	SURFACE	3267



NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County											
Continental Oil Company		Langlie Matrix		Lea											
Address		P. O. Box 460, Hobbs, New Mexico 88240		TEST - (X)											
LEASE NAME		WELL NO.	LOCATION	DATE OF TEST	STATUS										
		U	S	T	R										
				CHOKE SIZE	TBG. PRESS.										
				DAILY ALLOWABLE	LENGTH OF TEST HOURS										
				WATER BLS.	PROD. DURING TEST										
				GRAV. OIL BLS.	GAS M.C.F.										
				GAS - OIL RATIO CU. FT./BBL.											
Langlie Jack Unit	15	P	20	24	37	5-27-69	P	Open	40	0	24	0	10	0	0
	15	P	20	24	37	10-11-76	P	Open	40	51	24	2	53	0	0

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

Signed: Hugh Ingram

Administrative Supervisor

(Title)
November 2, 1970

(Date)

EXHIBIT

4

62224468

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

November 23, 1970

Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

Attention: Mr. G. C. Jamieson

Re: Administrative approval for the
dual completion of the Langlie
Jack Unit Jack A-21 Well No. 16,
Lea County, New Mexico

Gentlemen:

Please refer to Rule 112-A IV of the Commission
Rules and Regulations and forward to the Commission
information concerning the following:

- (a) Diagrammatic sketch
- (b) Plat
- (c) Waivers
- (d) Log

The above information must be considered by the
Secretary-Director in making his decision.

Very truly yours,

GEORGE M. HATCH
Attorney

GMH/esr

C
O
P
Y

Nov. 24 - talked
to Vic Lyon on
tele. - Vic said
to drop this
application as
it was in
error -
that the
application
is correct
Key Case
4468 to
be heard
Dec. 2, 1970



CONTINENTAL OIL COMPANY

P. O. Box 460
HOBBS, NEW MEXICO 88240

PRODUCTION DEPARTMENT
HOBBS DIVISION
L. P. THOMPSON
Division Manager
G. C. JAMIESON
Assistant Division Manager

November 19, 1970

1001 NORTH TURNER
TELEPHONE 393-4141

New Mexico Oil Conservation Commission (2)
P. O. Box 2088
Santa Fe, New Mexico

Attention Mr. A. L. Porter, Jr.,
Secretary-Director

Gentlemen:

Subject: Application for Multiple Completion

Continental Oil Company respectfully requests administrative approval on the enclosed application.

If this is not possible please set for hearing at your earliest convenience.

Yours very truly,

JAQ-RW

Enc

CC: NMOCC - Hobbs
USGS - Hobbs
RLA, JJB, JWK
Offset Operators
Skelly Oil Co.
Texaco, Inc.
Shell Oil Co.
Amerada Pet. Corp.

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

APPLICATION FOR MULTIPLE COMPLETION

Operator Continental Oil Company		County Lea	Date November 19, 1970
Address Box 460, Hobbs, New Mexico		Lease Langlie Jack Unit Jack A-21	Well No: 16 (Langlie Mattix) 1 (Jalmat Gas)
Location or Well	Unit H	Section 21	Township 24-S Range 37-F

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 ☐
2. If answer is yes, identify one such instance: Order No. R-3574; Operator, Lease, and Well No.: Pan American Pet. Corp.

Meyers "B" Federal "A" No. 4

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Jalmat - Yates		Langlie Mattix
b. Top and Bottom of Pay Section (Perforations)	3000-3200 (overall)		Open Hole 3400-3560'
c. Type of production (Oil or Gas)	Gas		Oil
d. Method of Production (Flowing or Artificial Lift)	Flow		Artificial Lift

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.
- Yes 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.*
- No 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.

Skelly Oil Company, Box 730, Hobbs, New Mexico 88240

Texaco, Inc. Box 728, Hobbs, New Mexico 88240

Shell Oil Company, Western Div, Box 1500, Midland, Texas 79704

Amerada Petroleum Corp. Box 668, Hobbs, New Mexico 88240

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

CERTIFICATE: I, the undersigned, state that I am the Supervising Division Engineer of the Continental Oil 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.

John A. Green
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.

DRAFT

GMH/esr

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. 4468

Order No. R- 4075

APPLICATION OF CONTINENTAL OIL COMPANY
FOR A DUAL COMPLETION AND WATER INJECTION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 2, 1970,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of December, 1970, 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, Continental Oil Company, seeks
authority to dually complete its Langlie Jack Unit Well No. 16,
located in Unit M of Section 21, Township 24 South, Range 37 East,
NMPM, Lea County, New Mexico, in such a manner as to permit the
production of gas from the Jalmat Gas Pool in the perforated
interval from approximately 3000 feet to 3200 feet through
1 1/2-inch tubing, and to permit the injection of water for
secondary recovery purposes into the Langlie-Mattix Pool in the
open-hole interval from approximately 3269 feet to 3567
feet through a parallel string of 2 1/2-inch plastic-lined tubing, with

separation of the zones by a packer set at approximately 3258 feet.

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

(5) That approval of the proposed dual completion will prevent the drilling of unnecessary wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Continental Oil Company, is hereby authorized to dually complete its Langlie Jack Unit Well No. 16, located in Unit M of Section 21, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of gas from the Jalmat Gas Pool in the perforated interval from approximately 3000 feet to 3200 feet through 1 1/2-inch tubing, and to permit the injection of water for secondary recovery purposes into the Langlie-Mattix Pool in the open hole interval from approximately 3269 feet to 3567 feet through a parallel string of 2 1/4-inch plastic-lined tubing, with separation of the zones by a packer set at approximately 3258 feet.

(2) That the applicant shall submit monthly reports of its injection operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) 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

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

CASE No. 4471

Order No. R- 4078

APPLICATION OF H. L. BROWN, Jr.,
FOR AN UNORTHODOX GAS WELL LOCA-
TION, EDDY COUNTY, NEW MEXICO.

R-4078

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 2, 1970,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of December, 1970, 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, H. L. Brown, Jr., seeks authority
to drill a ~~wildcat test~~ gas well to the Morrow formation ^{in an} undesig-
nated Morrow gas pool, at an unorthodox ~~wildcat~~ gas well location
660 feet from the South line and 1980 feet from the East line of
Section 19, Township 19 South, Range 30 East NMPM, Eddy County,
New Mexico; that the E/2 of said Section 19 would be dedicated
to said well.

(3) *That the applicant seeks to locate the
above-described well at a location ^{as far} removed
from the oil-potash area as far as is feasible in
order to not interfere with operations on adjoining
potash leases.*

(4) That the evidence indicates that the entire E/2 of said Section 19 is productive of gas from the Morrow formation.

(5) That the entire E/2 of said Section 19 can be efficiently and economically drained and developed by the subject well.

(6) That approval of the subject application will afford the applicant the opportunity to produce his just and equitable share of the gas in the subject undesignated Morrow gas pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, H. L. Brown, Jr., is hereby granted an exception to the well location requirements of Rule 104 C II of the Commission Rules and Regulations and is hereby authorized to drill a ~~wildcat test~~ ^{in an} gas well to the Morrow formation, undesignated Morrow gas pool, at an unorthodox ~~wildcat~~ gas well location 660 feet from the South line and 1980 feet from the East line of Section 19, Township 19 South, Range 30 East, NMPM, Eddy County, New Mexico, to be dedicated to a standard unit comprising the E/2 of said Section 19.

(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.