

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE  
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION  
OF CONTINENTAL OIL COMPANY FOR AN  
EXCEPTION TO RULE 5 (a) OF THE  
SPECIAL RULES AND REGULATIONS FOR  
THE JALMAT GAS POOL CONTAINED IN  
ORDER NO. R-520 FOR THE ENLARGEMENT  
OF THE PRESENTLY APPROVED 160-ACRE  
UNIT TO A NON-STANDARD GAS PRORATION  
UNIT OF 320-ACRES CONSISTING OF S/2  
SECTION 33, T 22S, R 36E, NMPM, LEA  
COUNTY, NEW MEXICO, TO BE ALLOCATED  
TO ITS MEYER B-33 WELL NO. 1.

A P P L I C A T I O N

Comes now applicant, Continental Oil Company and petitions the Commission for an order enlarging the present 160 acre gas proration unit to one of 320 acres consisting of S/2 of Section 33, T 22S, R 36E, NMPM, Jalmat gas pool, Lea County, New Mexico, to be allocated to its Meyer B-33 No. 1 well located 660 feet from the south line and 660 feet from the west line of said Section 33 and in support thereof would show:

1. That applicant is owner and operator of a lease designated as the Meyer B-33 lease consisting of S/2 section 33, T 22S, R 36E, NMPM, Lea County, New Mexico.

2. That applicant drilled and completed in July, 1947, its Meyer B-33 well No. 1 at a location 660 feet from the south line and 660 feet from the west line of said Section 33.

3. That the SW/4 of the said Section 33 is presently assigned the said well No. 1, but that the SE/4 is not assigned to any gas well and that all of said acreage may reasonably be presumed to be productive of gas from the Jalmat Pool and should be allocated to a gas well in the interests of the prevention of waste and the protection of correlative rights.

4. That the most practical and economical method of allocating said acreage for Jalmat Pool gas production is to

enlarge the existing 160 acre unit to a 320 acre non-standard gas proration unit for assignment to the Meyer B-33 well No. 1.

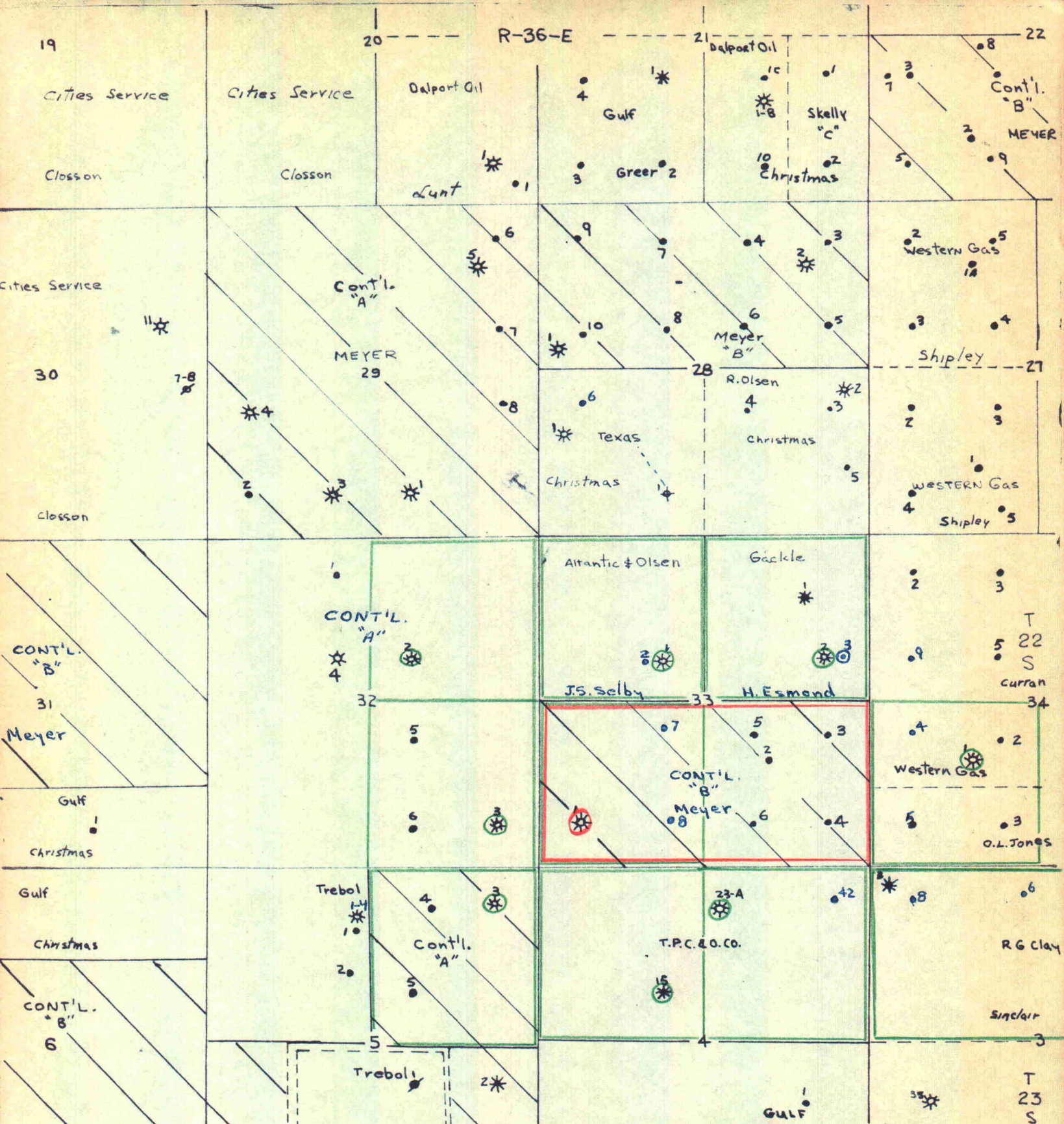
Wherefore, applicant prays that this application be set for hearing before the Commission's duly appointed examiner, in Hobbs, New Mexico, that appropriate notice thereof be given, and that upon hearing an order be entered granting applicant an exception to Rule 5 (a) of the special rules and regulations for the Jalmat gas pool contained in order No. R-520 for the non-standard gas proration unit described above.

Respectfully submitted,  
CONTINENTAL OIL COMPANY

R. L. Adams  
Division Superintendent  
of Production  
New Mexico Division







CONTINENTAL OIL COMPANY  
LOCATION & GAS ALLOCATION PLAT  
Scale 1" = 2000'

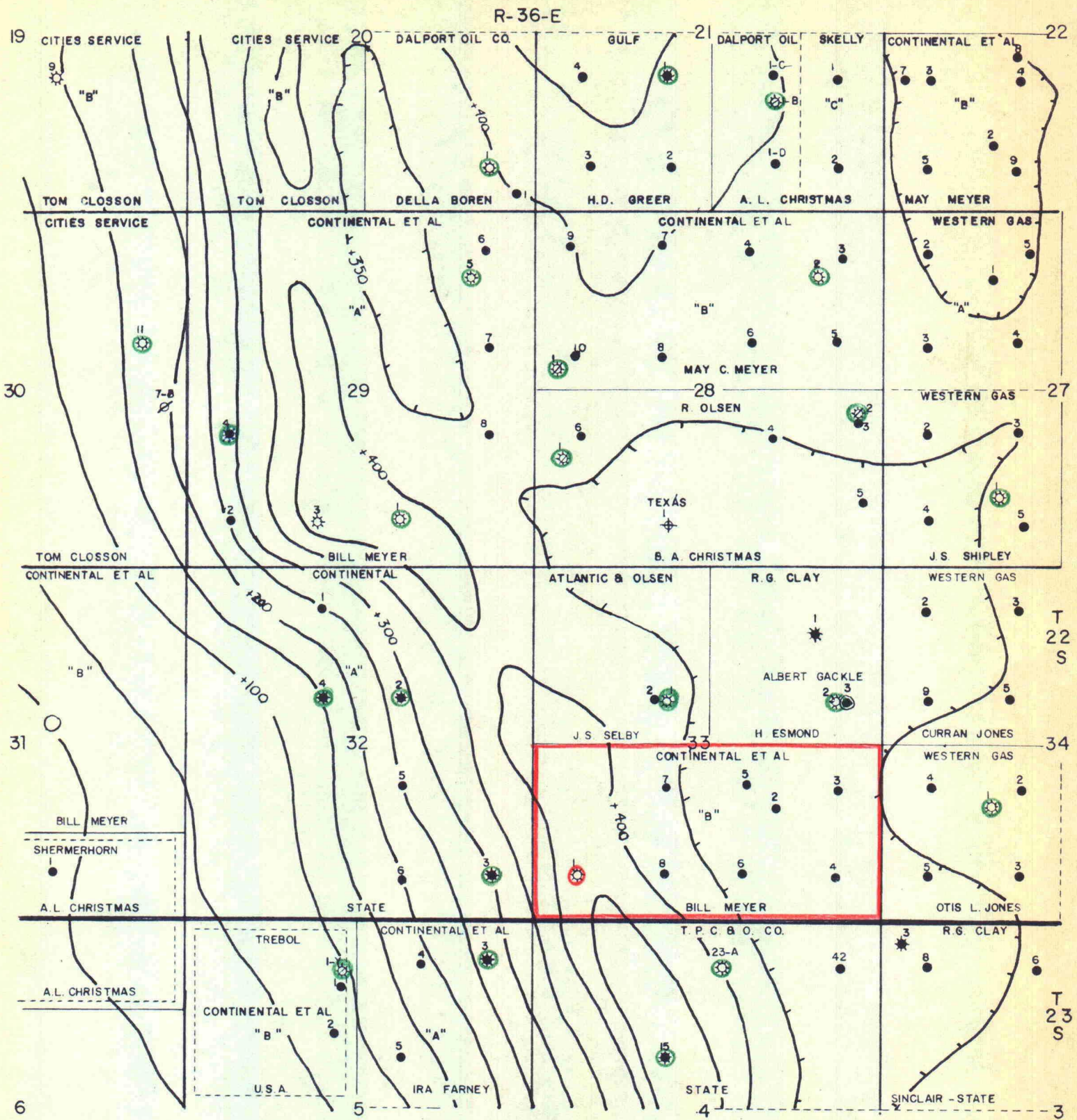
Proposed Unit Boundary  
Proposed Unit Well

**BEFORE EXAMINER NUTTER**  
OIL CONSERVATION COMMISSION

Approved Unit Boundary —  
Approved Unit Well

C.O.E. \_\_\_\_\_  
CASE NO. 1541





Contour Interval: 50'  
 Proposed Gas Unit —  
 Proposed Gas Unit Well ●  
 Jalmat Gas Well ○

**BEFORE EXAMINER NUTTER**

**OIL CONSERVATION COMMISSION**

C.O.C. EXHIBIT NO. 2

CASE NO. 1541

Scale 1" = 2000'

Exhibit No. \_\_\_\_\_

Case No. \_\_\_\_\_

NEW MEXICO OIL CONSERVATION COMMISSION  
One-point Back Pressure Test for Gas Wells  
(Deliverability)

Form C-122-C  
4-1-54

Pool Jalisco Formation Yucca County Lee  
Initial Annual X Special    Date of test 3-7/3-14-54  
Company Continental Oil Company Lease Mayer L-33 Well No. 1  
Unit 1 Sec. 11 Twp. 22 Rge. 36 Purchaser El Paso Nat. Gas Company  
Casing 3 1/2 Wt. 14 I.D. 4.892 Set at 1406 Perf. 1056 To 1180  
Tubing 2 1/2 Wt. 6.5 I.D. 2.875 Set at 2903 Perf.    To     
Gas Pay: From 1056 To 1180 L 2903 x G .660 = GL 1974 Bar.Press. 13.2  
Producing Thru: Casing    Tubing X Type Well Single  
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
<u>3-7</u>	<u>8:00 AM</u>	<u>3-10</u>	<u>8:00 AM</u>	<u>24</u>	<u>Flg</u>	<u>4"</u>	<u>1.500</u>	<u>477</u>	<u>9.00</u>	<u>60</u>
	<u>PM</u>		<u>PM</u>							

FLOW CALCULATIONS

Static Pressure $P_f$	Differ- ential $h_w$	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coeff- icient	Gravity Factor $F_g$	Temp. Factor $F_t$	Compress- ability $F_{pv}$	Rate of Flow MCF/Da. @ 15.025 psia $Q$
<u>490.2</u>	<u>9.00</u>	<u>66.42</u>	<u>13.99</u>	<u>.9393</u>	<u>1.000</u>	<u>1.056</u>	<u>924</u>

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure ( $P_c$ ) psia		W.H. Working Pressure ( $P_w$ ) and ( $P_t$ ) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
<u>3-11</u>	<u>6:00 AM</u>	<u>3-14</u>	<u>6:00 AM</u>	<u>72</u>	<u>998.2</u>			<u>491.2</u>
	<u>PM</u>		<u>PM</u>					

FRICTION CALCULATIONS(if necessary)

$P_w$  \_\_\_\_\_  $P_c$  \_\_\_\_\_  $P_w + P_c$  \_\_\_\_\_  
 $1 - \frac{P_w}{P_c}$  \_\_\_\_\_  $1 + \frac{P_w}{P_c}$  \_\_\_\_\_  $\left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M$  \_\_\_\_\_  
 $.36 + M$  \_\_\_\_\_ Log \_\_\_\_\_ x (n) .771 \_\_\_\_\_ = \_\_\_\_\_ +

DELIVERABILITY CALCULATIONS

$P_w$  \_\_\_\_\_  $P_c$  \_\_\_\_\_  $P_w + P_c$  \_\_\_\_\_  
 $1 - \frac{P_w}{P_c}$  \_\_\_\_\_  $1 + \frac{P_w}{P_c}$  \_\_\_\_\_  $\left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M$  \_\_\_\_\_  
 $.36 + M$  \_\_\_\_\_ Log \_\_\_\_\_ x (n) .771 \_\_\_\_\_ = \_\_\_\_\_ +

SUMMARY

$P_c =$  998.2 psia  
 $Q =$  924 MCF/Da.  
 $P_w =$  491.2 psia  
 $P_d =$  478.6 psia  
 $D =$  998 MCF/Da.

COMPANY Continental Oil Company  
 ADDRESS Box 65, Pecos, New Mexico  
 AGENT and TITLE \_\_\_\_\_  
 WITNESSED \_\_\_\_\_  
 COMPANY \_\_\_\_\_

Log Q = \_\_\_\_\_  
 Log D = \_\_\_\_\_  
 Antilog = 998 = D

REMARKS

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

C.o.c. EXHIBIT NO. ✓

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