

Case No.

1349

Application, Transcript,
Small Exhibits, Etc.

CASE 1349: Continental Oil Co. application
for 320-acre NS gas proration unit, Eumont
Gas Pool (STATE D-15 #8 Well)

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
November 20, 1957

IN THE MATTER OF
CASE NO. 1349

TRANSCRIPT OF PROCEEDINGS

DEARNLEY - MEIER & ASSOCIATES
INCORPORATED
GENERAL LAW REPORTERS
ALBUQUERQUE - SANTA FE
3-6691 2-2211

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
November 20, 1957

IN THE MATTER OF:)

)
) Application of Continental Oil
) Company for an order approving
) a 320-acre non-standard gas pro-
) ration unit in the Eumont Gas Pool,
) Lea County, New Mexico. Applicant,
) in the above-styled cause, seeks an
) order establishing a 320-acre non-
) standard gas proration unit in the
) Eumont Gas Pool consisting of the
) E/2 of Section 15, Township 21 South,
) Range 36 East, Lea County, New Mex-
) ico, said unit to be dedicated to the
) applicant's State D-15 No. 3 Well
) located 660 feet from the South line
) and 660 feet from the East line of said
) Section 15.
)

CASE NO.
1349

BEFORE:

Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Next case on the docket will be Case 1349.

MR. COOLEY: Application of Continental Oil Company for an
order approving a 320-acre non-standard gas proration unit in the
Eumont Gas Pool, Lea County, New Mexico.

MR. KELLAHIN: I am Jason Kellahin of Kellahin and Fox,
representing the applicant. We will have one witness, Mr. W. V.
Boynton.

E. V. BOYNTON

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

DEARNLEY - MEIER & ASSOCIATES
INCORPORATED
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
3-6691 5-9546

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Will you state your name, please?

A E. V. Boynton.

Q By whom are you employed, Mr. Boynton?

A Continental Oil Company.

Q In what capacity? A District Engineer.

Q In what district is that, Mr. Boynton?

A That's in the Hobbs District, Lea County.

Q Have you testified before the Oil Conservation Commission in New Mexico previously and had your qualifications accepted as an expert?

A I have.

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. UTZ: His qualifications are acceptable.

Q Mr. Boynton, are you familiar with the application in Case 1349?

A Yes, I am.

Q What is proposed to be done?

A Continental seeks an order establishing a 320-non-standard gas proration unit in the Eumont Gas Pool. This unit is to consist of the E/2 of Section 15, Township 21 South, Range 36 East, Lea County, New Mexico, and is to be assigned to Well No. 8 which would be located 660 feet from the South and 660 feet from the East line of said section.

Q Now, referring to what has been marked as Exhibit No. 1, will you state what that shows, please?

A Exhibit No. 1 is an ownership plat which shows the offset gas wells to the subject lease encircled in green, and the offset gas proration units outlined in green. It shows the subject well encircled in red, and the subject lease outlined in red. It also shows the general structure in the area as contoured on top of the Yates formation, and from the arrangement of the offset gas wells and the structure, it's evident that the entire acreage is productive of gas.

Q Now, location Well No. 8, please.

A Well No. 8 was depleted in the Eunice Pool, that is the reason it was plugged back, and at first we had proposed to dual well No. 7, which is at a location outlined in the rules and regulations.

Q And when it was depleted, what was done with the well, then?

A We plugged it back out of the Eunice Pool and completed it in the Eumont Pool for gas.

Q Now, referring to Exhibit No. 2, will you state what that shows?

A Exhibit No. 2 is a reproduction of the radioactivity log of the well. It shows the original total depths, the casing, the line that had been set in, the old zone of completion, and the present zone of completion.

Q This shows the depth of perforation?

A It does. It shows the present perforation to be entirely within the Queen formation.

Q Now, has any back pressure test been made on this well?

A We have a back pressure and deliverability test which is marked Exhibit No. 3.

Q Will you state briefly what information is shown on that exhibit?

A This is a four point back pressure test, according to the latest test rules and regulations of the Commission for testing gas wells, and it shows that the well is capable of forty-one million standard cubic feet of gas per day openflow potential, and its deliverability at 600 pounds, some forty million cubic feet per day, which shows that we can easily produce the 320-acre allowable.

Q Now, in your opinion, is all the acreage to be dedicated to this well productive of gas from the Eumont Pool?

A It is, yes.

Q Is it completely surrounded by units dedicated to other wells?

A It is almost surrounded. I believe, to the southeast, Humble has not developed their acreage.

Q Could you state what the location of the well to the south is?

A Gulf has a well located 660 feet from the North and 1980 from the East line of Section 22, same township, same range, this is also an unorthodox location, similar to the one we were seeking.

Q And that would be a direct offset to the subject well?

A That is true, yes.

Q In your opinion, would approval of this application result

in the prevention of waste and protection of correlative rights?

A It will.

MR. KELLAHIN: That's all the questions we have.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Boynton, referring to your Exhibit No. 3, I note that the longest flow rate was only six hours, which is flow rate No. 4, which is your open flow C-122, and also note point No. 4, which is that point, fell to the left of the curve. Do you believe that is a stabilized curve?

A This well was not entirely cleaned up when we tested it. That point No. 4 fell back to the left of the line because we were exceeding the capacity of our separator. That frequently happens with gas wells that have high potential, that last point will fall to the left of the line, and as for the six hour test, I don't believe a 24 hour point is required on a four point back pressure test, is it, actually?

Q I believe it is, unless you show stabilization before 24 hours. Do you know whether this was stabilized or not? Did you take any pressures?

A I didn't test the well personally. However, that was reported to me to be the case, yes, sir.

Q Could you supply the Commission with those pressure readings that would show stabilization?

A I am not sure that we had a recording pressure gauge on that

valvo, but if we have them I certainly will, yes, sir.

Q I wish you would, if you do have them available.

A In that connection, at this juncture, this has recently been completed and we feel that it is extremely hazardous to flow a well for 24 hours through the night. In other words, unless a man stays there with it, of course.

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

MR. NUTTER: Yes.

BY MR. NUTTER:

Q Mr. Boynton, this well presently has no acreage dedicated to it in the Eumont Gas Pool?

A Has none, that's right.

Q The other seven wells in this 320-acre unit are completed in what pool?

A In the Eunice Pool.

MR. NUTTER: That's all. Thank you.

MR. UTZ: Any other questions of the witness?

MR. KELLAHIN: At this time we would like to offer Exhibits 1 through 3 in evidence.

MR. UTZ: Is there objection to the introduction of Continental's Exhibits 1, 2, and 3? If not, they will be accepted. The witness may be excused.

(Witness excused.)

MR. UTZ: Is there any other statement to be made in connection with this case? Case will be taken under advisement.

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 Hearing 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; the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS My Hand and Seal, this, the 23th day of December,
1957, in the City of Albuquerque, County of Bernalillo, State of
New Mexico.

J. G. Trujillo
Notary Public

My Commission Expires:

October 5, 1960

I do hereby certify that the foregoing is
a complete record of the proceedings in
the hearing held at New York No. 1399,
dated at New York, Nov. 29, 1957.

Examiner
New Mexico Oil Conservation Commission

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

December 26, 1957

C
O
P
Y

Mr. Jason Kellahin
P.O. Box 1713
Santa Fe, New Mexico

Dear Sir:

On behalf of your client, Continental Oil Company, we enclose two copies of Order R-1100 issued December 18, 1957, by the Oil Conservation Commission in Case 1349, which was heard on November 20th at Santa Fe.

Very truly yours,

A. L. Porter, Jr.
Secretary - Director

bp
Encls.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 1349
Order No. R-1100

APPLICATION OF CONTINENTAL OIL
COMPANY FOR APPROVAL OF A 320-ACRE
NON-STANDARD GAS PRORATION UNIT IN
THE EUMONT GAS 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 November 20, 1957, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the New Mexico Oil Conservation Commission, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 18th day of December, 1957, 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, Continental Oil Company, is the owner and operator of an oil and gas lease covering the E/2 of Section 15, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico.

(3) That the applicant is the owner and operator of the State D-15 No. 8 Well, located 660 feet from the South line and 660 feet from the East line of said Section 15, which well is completed within the vertical and horizontal limits of the Eumont Gas Pool.

(4) That the applicant proposes the establishment of a 320-acre non-standard gas proration unit consisting of the above-described acreage to be dedicated to the said State D-15 No. 8 Well.

(5) That approval of the subject application will not cause waste nor impair correlative rights.

(6) That the subject application should be approved.

-2-

Case No. 1349
Order No. R-1100

IT IS THEREFORE ORDERED:

(1) That a 320-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the E/2 of Section 15, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, be and the same is hereby established, said unit to be dedicated to the applicant's State D-15 No. 8 Well, located 660 feet from the South line and 660 feet from the East line of said Section 15.

(2) That the said State D-15 No. 8 Well be granted an allowable in the Eumont Gas Pool in the proportion that the acreage in the above-described unit bears to the acreage in a standard gas proration unit for the Eumont Gas Pool, subject to the provisions of Rule 12 of the Special Rules and Regulations for the Eumont Gas Pool as set forth in Order No. R-520.

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



1r/

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 11-21-57

CASE 1349 Hearing Date 11-20-57

My recommendations for an order in the above numbered case(s) are as follows:

The application should be granted as requested.

1. The unit well should be the Continental-St. D-15 #8, located 660/S & E lines of section 15, 715-36E such well completed in the vertical limits of the Tumout Gas Pool.
2. The unit should be E/2 sec. 15- 215-36E. 320. Acres & the ac. factor for proration shall be 2.00.

Thurston W. [Signature]
Staff Member

DOCKET: EXAMINER HEARING NOVEMBER 20, 1957

Oil Conservation Commission 9:00 a.m. Mabry Hall, State Capitol, Santa Fe, New Mex.

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

CASE 1340:

Application of the Ohio Oil Company for an order authorizing an oil-oil dual completion in the Monument-Blinebry Pool and Monument-Paddock Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its Bertha Barber Well No. 9 located 1980 feet from the North line and 560 feet from the West line of Section 5, Township 20 South, Range 37 East, Lea County, New Mexico, in such a manner that oil may be produced through parallel strings of tubing from the Monument-Blinebry Pool and Monument-Paddock Pool, Lea County, New Mexico.

CASE 1341:

Application of R. Olsen for an order authorizing an oil-oil dual completion in the Tubb Gas Pool and Blinebry Oil Pool in Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Sarkeys Well No. 2, located 660 feet from the North line and 660 feet from the West line of Section 25, Township 21 South, Range 37 East, Lea County, New Mexico, in such a manner that oil may be produced through parallel strings of tubing from the Tubb Gas Pool and Blinebry Oil Pool, Lea County, New Mexico.

CASE 1342:

Application of Shell Oil Company for permission to install centralized automatic production facilities and lease custody transfer system on certain of its leases in the Pearl-Queen Pool area, Lea County, New Mexico, and for permission to produce more than eight wells into common storage and to transport oil from the leases prior to measurement. Applicant, in the above-styled cause, seeks an order authorizing it to install automatic production facilities and lease custody transfer system on twenty-three of its leases in the Pearl-Queen Pool area located in Sections 21, 22, 23, 25, 26, 27, 28, 34, 35, and 36, all in Township 19 South, Range 35 East, and Section 2, Township 20 South, Range 35 East, Lea County, New Mexico, and further authorizing the production of more than eight wells into common storage and permitting the transportation of oil from said leases prior to measurement.

CASE 1343:

Application of Humble Oil and Refining Company for an order authorizing two producing wells on a 640-acre gas proration unit in the Eumont Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing two Eumont gas wells on its Eumont Gas Unit No. 1 which comprises Section 4, Township 20 South, Range 37 East, Lea County, New Mexico, said unit is presently dedicated to the applicant's Eumont Gas Unit #1, Well No. 1, located 2310 feet from the South line and 1980 feet from the East line of said Section 4. The proposed additional well is the applicant's Eumont

Gas Unit #1, Well No. 2, located 2180 feet from the South line and 660 feet from the West line of said Section 4. Applicant proposes to limit the production from the No. 2 Well to no more than 50% of the unit allowable.

CASE 1344:

Application of Pan American Petroleum Corporation for a non-standard gas proration unit and an unorthodox gas well location in the Blanco Mesaverde Gas Pool in San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a 331-acre non-standard gas proration unit in the Blanco Mesaverde Gas Pool consisting of the S/2 S/2 N/2 and S/2 of Section 18, Township 29 North, Range 9 West, San Juan County, New Mexico, and for an unorthodox gas well location for said unit well at a point 1820 feet from the South line and 1850 feet from the East line of said Section 18.

CASE 1345:

Application of Pan American Petroleum Corporation for a non-standard gas proration unit and an unorthodox gas well location in the Blanco Mesaverde Gas Pool in San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a 409-acre non-standard gas proration unit in the Blanco Mesaverde Gas Pool consisting of the N/2 and N/2 S/2 of Section 19, Township 29 North, Range 9 West San Juan County, New Mexico, and for an unorthodox gas well location for said unit well at a point 1750 feet from the North line and 1750 feet from the East line of said Section 19.

CASE 1346:

Application of Pan American Petroleum Corporation for a non-standard gas proration unit and an unorthodox gas well location in the Blanco Mesaverde Gas Pool in San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a 408-acre non-standard gas proration unit in the Blanco Mesaverde Gas Pool consisting of the S/2 S/2 of Section 19, and the N/2 of Section 30, Township 29 North, Range 9 West, San Juan County, New Mexico, and for an unorthodox gas well location for said unit well at a point 990 feet from the North line and 1650 feet from the East line of said Section 30.

CASE 1347:

Application of Pan American Petroleum Corporation for approval of a non-standard gas proration unit in the Tubb Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a non-standard gas proration unit in the Tubb Gas Pool consisting of the W/2 W/2 of Section 32, Township 22 South, Range 38 East, Lea County, New Mexico, said unit to be dedicated to the applicant's State "S" No. 3 Well located 1980 feet from the North line and 660 feet from the West line of said Section 32.

CASE 1348:

Application of Cities Service Oil Company for approval of two non-standard gas proration units in the Tubb Gas Pool and the Blinebry Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a 160-acre non-standard gas

proration unit in the Tubb Gas Pool and Blinebry Gas Pool consisting of the E/2 W/2 of Section 32, Township 22 South, Range 38 East, Lea County, New Mexico, said units to be dedicated to the applicant's dually completed State "P" No. 1 Well located 1980 feet from the North line and 1980 feet from the West line of said Section 32.

CASE 1349:

Application of Continental Oil Company for an order approving a 320-acre non-standard gas proration unit in the Eumont Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a 320-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the E/2 of Section 15, Township 21 South, Range 36 East, Lea County, New Mexico, said unit to be dedicated to the applicant's State D-15 No. 8 Well located 660 feet from the South line and 660 feet from the East line of said Section 15.

CASE 1350:

Application of John J. Eisner for a non-standard gas proration unit in the Empire-Pennsylvanian Gas Pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a non-standard gas proration unit in the Empire-Pennsylvanian Gas Pool consisting of the S/2 SE/4 of Section 20, and the N/2 NE/4 of Section 29, Township 17 South, Range 28 East, Eddy County, New Mexico, said unit to be dedicated to applicant's well to be drilled at a point 330 feet from the North line and 990 feet from the East line of said Section 29.

CASE 1351:

Application of Amerada Petroleum Corporation for approval of a 240-acre non-standard gas proration unit in the Eumont Gas Pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order establishing a 240-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the SE/4 of Section 34, and the N/2 SW/4 of Section 35, all in Township 20 South, Range 36 East, Lea County, New Mexico, said unit to be dedicated to the applicant's L. W. White No. 1 Well located 660 feet from the South line and 660 feet from the East line of said Section 34.

Case 1349



CONTINENTAL OIL COMPANY

825 PETROLEUM BUILDING
ROSWELL, NEW MEXICO

R. L. ADAMS
DIVISION SUPERINTENDENT
OF PRODUCTION
NEW MEXICO DIVISION

October 16, 1957

MAIN OFFICE OCC

1957 OCT 21 7:56

Ex ltr 11-20?
Docket Mailed
11-6-57 BP

✓ New Mexico Oil Conservation Commission
Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Re: Continental Oil Company's
application for a 320-acre
non-standard proration unit
for its State D-15 Well No. 8,
Eumont Pool, Section 15, T21S,
R36E.

Gentlemen:

We forward herewith application in triplicate for approval
of a 320-acre non-standard proration unit for our State D-15
Well No. 8.

It is respectfully requested that this matter be set for
hearing before an examiner in Hobbs, New Mexico at the earliest
convenient date.

Yours very truly,

R. L. Adams
R. L. ADAMS

RLA-HH
Enc

BEFORE THE OIL CONSERVATION COMMISSION
OF THE
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF
CONTINENTAL OIL COMPANY FOR AN EX-
CEPTION TO RULE 5 (a) OF THE SPECIAL
RULES AND REGULATIONS FOR THE EUMONT
GAS POOL CONTAINED IN ORDER NO. R-520
IN ESTABLISHMENT OF A NON-STANDARD
GAS PRORATION UNIT OF 320 ACRES CON-
SISTING OF THE E/2 OF SECTION 15, T21S,
R36E, NMPM, LEA COUNTY, NEW MEXICO TO
BE ALLOCATED TO ITS STATE D-15 WELL
NO. 8

A P P L I C A T I O N

Comes now applicant, Continental Oil Company, and petitions
the Commission for an order approving a non-standard gas proration
unit consisting of the E/2 of Section 15, T21S, R36E, NMPM, Lea
County, New Mexico, to be allocated to its State D-15 No. 8 well
located 660 feet from the South and East lines of said Section 15
and in support thereof would show:

1. That applicant is owner and operator of the State D-15
lease containing, among other lands, the E/2 of Section 15, T21S,
R36E, NMPM, Lea County, New Mexico.
2. That applicant drilled the State D-15 No. 8 at a loca-
tion 660 feet from the South and East lines of said Section 15 and
completed it April 12, 1937, as an oil well in the Eunice Pool.
3. That said well is now a depleted oil well in the Eunice
Pool and will be plugged back and recompleted in the Eumont Gas Pool.
4. That no part of the acreage comprising the E/2 of
Section 15 is allocated to a gas well and that all said acreage may
reasonably be presumed to be productive of gas from the Eumont Pool
and should be allocated to a gas well in the interests of the pre-
vention of waste and the protection of correlative rights.
5. That the most practical and economical method of
allocating said acreage for Eumont Pool gas production is to estab-
lish a 320-acre non-standard gas proration unit, as described above,
for assignment to the State D-15 Well No. 8.

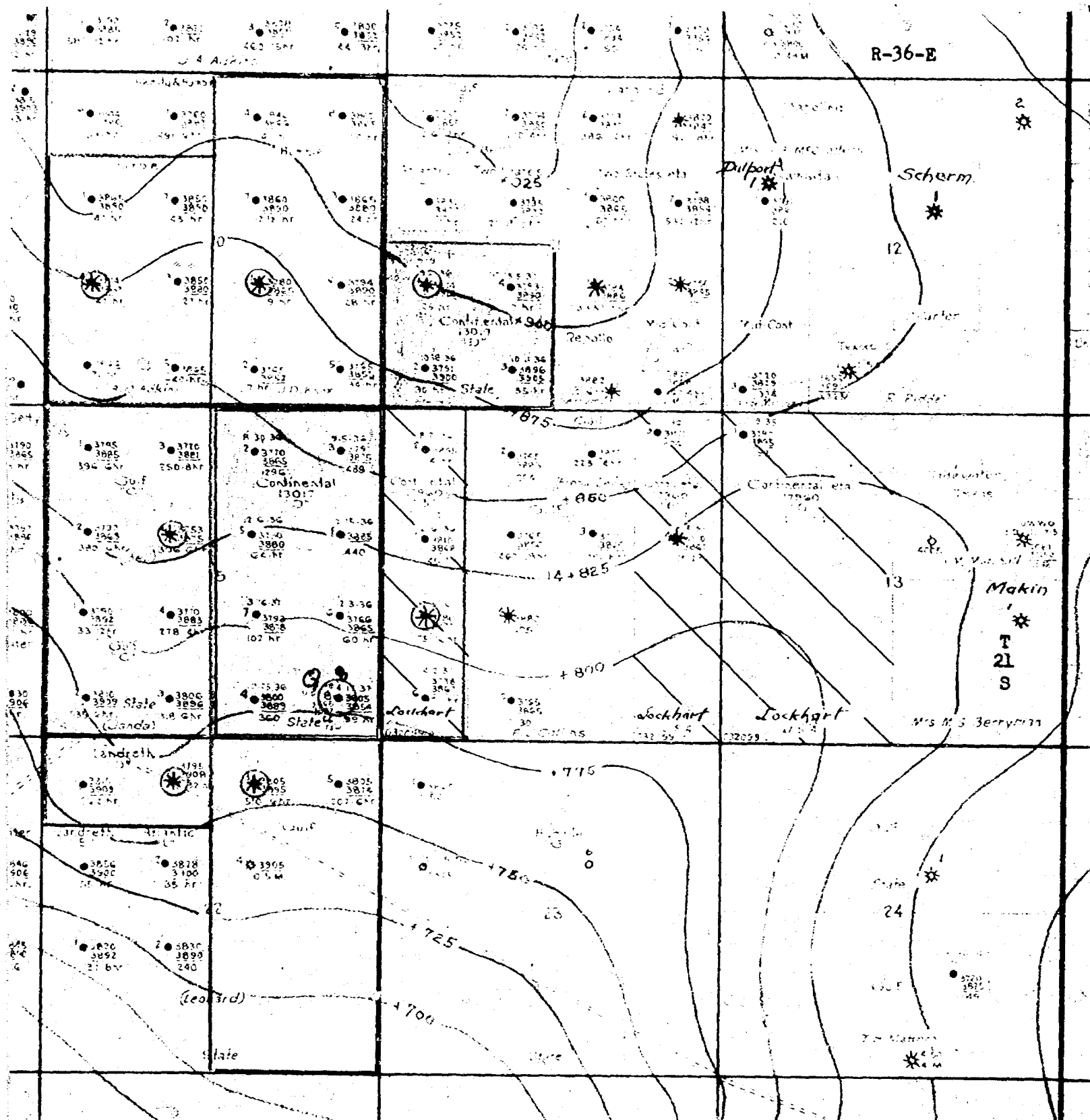
Wherefore, applicant prays that this application be set for hearing before the Commission's duly appointed examiner, in Hobbs, New Mexico, that appropriate notice thereof be given, and that, upon hearing an order be entered granting applicant an exception to rule 5 (a) of the special rules and regulations for the Eumont 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

scale: 1"=2000' 25' contours on top of Yates

- Proposed Recompletion — Acreage Proposed for Recompletion
 ○ Offset Gas Well — Acreage Assigned to Offset Gas Well

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 11-21-57

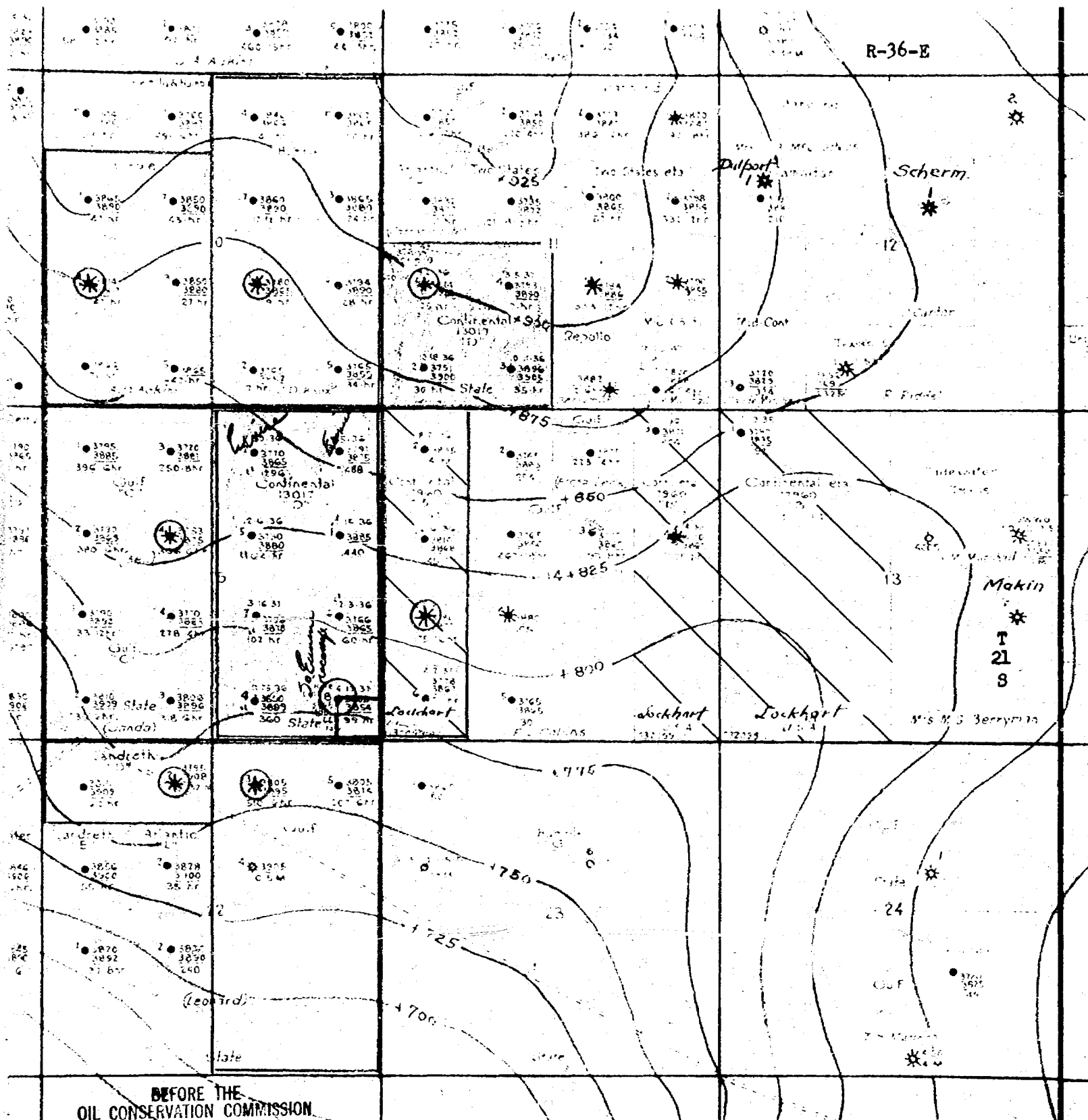
CASE 1349.

Hearing Date 11-20-57

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

That the application be granted as requested.
Allowable to be effective in accordance with
the Proration rules of the Tumout gas
Pool.


Staff Member



BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Continental Exhibit No. 1
CASE 1349

CONTINENTAL OIL COMPANY

Exhibit No. 1
Case 1349

scale: 1"=2000' 25' contours on top of Yates



Proposed Recompletion
Offset Gas Well

— Acreage Proposed for Recompletion
— Acreage Assigned to Offset Gas Well

NEW MEXICO OIL CONSERVATION COMMISSION

BEFORE THE

OIL CONSERVATION COMMISSION

Continental

Form C-122

CASE 1349

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Summit Formation Queen County Lea

Initial I Annual _____ Special _____ Date of Test 11-16-57

Company Continental Oil Company Lease State D-15 Well No. 8

Unit P Sec. 15 Twp. 21 Rge. 36 Purchaser EPNG to connect

Casing 5 1/2 Wt. 17 I.D. _____ Set at _____ Perf. 3494 To 3648

Tubing 2 Wt. 4.7 I.D. _____ Set at _____ Perf. _____ To _____

Gas Pay: From _____ To 3494 L 3648 xG .670 -GL 2341 Bar.Press. 13.2

Producing Thru: Casing I Tubing _____ Type Well Single

Date of Completion: 11-16-57 Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Pressure~~) (~~Choke~~) (Meter)Type Taps Flange

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Pressure) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1025		1025		36
1.	4	1.250	480	22	42	1013				2
2.	4	2.000	560	27	40	985				2
3.	4	2.000	600	69	50	956				2
4.	4	2.000	830	76	66	915				4
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	9.643	104.28	493.2	1.0178	.9463	1.038	1005
2.	25.580	124.40	573.2	1.0198	.9463	1.077	3307
3.	25.580	205.70	613.2	1.0098	.9463	1.079	5426
4.	25.580	253.14	843.2	.9943	.9463	1.098	6690
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c Not applicable (1-e^{-s}) Not applicable

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 1038.2 P_c 1077.9

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c	
1.	1025.2					1053.1	24.8	1026.2	.99	**
2.	998.2					996.4	81.5	998.2	.96	**
3.	968.2					939.3	138.6	968.2	.93	
4.	928.2					861.5	266.7	928.2	.89	**
5.										

Absolute Potential: 41,000 MCFPD; n .99COMPANY Continental Oil CompanyADDRESS Box 427, Hobbs, New MexicoAGENT and TITLE Mr. W. D. Howard, Gas Tester

WITNESSED _____

COMPANY _____

REMARKS

* P_w measured

** On first data point well was tending to freeze off in choke.

On higher rates of flow drawdown & deliverability was limited by capacity of separator.

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173. 2174. 2175. 2176. 2177. 2178. 2179. 2180. 2181. 2182. 2183. 2184. 2185. 2186. 2187. 2188. 2189. 2190. 2191. 2192. 2193. 2194. 2195. 2196. 2197. 2198. 2199. 2200. 2201. 2202. 2203. 2204. 2205. 2206. 2207. 2208. 2209. 2210. 2211. 2212. 2213. 2214. 2215. 2216. 2217. 2218. 2219. 2220. 2221. 2222. 2223. 2224. 2225. 2226. 2227. 2228. 2229. 2230. 2231. 2232. 2233. 2234. 2235. 2236. 2237. 2238. 2239. 2240. 2241. 2242. 2243. 2244. 2245. 2246. 2247. 2248. 2249. 2250. 2251. 2252. 2253. 2254. 2255. 2256. 2257. 2258. 2259. 2260. 2261. 2262. 2263. 2264. 2265. 2266. 2267. 2268. 2269. 2270. 2271. 2272. 2273. 2274. 2275. 2276. 2277. 2278. 2279. 2280. 2281. 2282. 2283. 2284. 2285. 2286. 2287. 2288. 2289. 2290. 2291. 2292. 2293. 2294. 2295. 2296. 2297. 2298. 2299. 2300. 2301. 2302. 2303. 2304. 2305. 2306. 2307. 2308. 2309. 2310. 2311. 2312. 2313. 2314. 2315. 2316. 2317. 2318. 2319. 2320. 2321. 2322. 2323. 2324. 2325. 2326. 2327. 2328. 2329. 2330. 2331. 2332. 2333. 2334. 2335. 2336. 2337. 2338. 2339. 2340. 2341. 2342. 2343. 2344. 2345. 2346. 2347. 2348. 2349. 2350. 2351. 2352. 2353. 2354. 2355. 2356. 2357. 2358. 2359. 2360. 2361. 2362. 2363. 2364. 2365. 2366. 2367. 2368. 2369. 2370. 2371. 2372. 2373. 2374. 2375. 2376. 2377. 2378. 2379. 2380. 2381. 2382. 2383. 2384. 2385. 2386. 2387. 2388. 2389. 2390. 2391. 2392. 2393. 2394. 2395. 2396. 2397. 2398. 2399. 2400. 2401. 2402. 2403. 2404. 2405. 2406. 2407. 2408. 2409. 2410. 2411. 2412. 2413. 2414. 2415. 2416. 2417. 2418. 2419. 2420. 2421. 2422. 2423. 2424. 2425. 2426. 2427. 2428. 2429. 2430. 2431. 2432. 2433. 2434. 2435. 2436. 2437. 2438. 2439. 2440. 2441. 2442. 2443. 2444. 2445. 2446. 2447. 2448. 2449. 2450. 2451. 2452. 2453. 2454. 2455. 2456. 2457. 2458. 2459. 2460. 2461. 2462. 2463. 2464. 2465. 2466. 2467. 2468. 2469. 2470. 2471. 2472. 2473. 2474. 2475. 2476. 2477. 2478. 2479. 2480. 2481. 2482. 2483. 2484. 2485. 2486. 2487. 2488. 2489. 2490. 2491. 2492. 2493. 2494. 2495. 2496. 2497. 2498. 2499. 2500. 2501. 2502. 2503. 2504. 2505. 2506. 2507. 2508. 2509. 2510. 2511. 2512. 2513. 2514. 2515. 2516. 2517. 2518. 2519. 2520. 2521. 2522. 2523. 2524. 2525. 2526. 2527. 2528. 2529. 2530. 2531. 2532. 2533. 2534. 2535. 2536. 2537. 2538. 2539. 2540. 2541. 2542. 2543. 2544. 2545. 2546. 2547. 2548. 2549. 2550. 2551. 2552. 2553. 2554. 2555. 2556. 2557. 2558. 2559. 2560. 2561. 2562. 2563. 2564. 2565. 2566. 2567. 2568. 2569. 2570. 2571. 25

