

CASE 2405: Application of AMERADA
for a dual completion of its IDA
WIMBERLY WELL NO. 11.

-asa 1/10.

2405

Application, Transcript,

and Exhibits, Etc.

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. 1405
Order No. R-2108

APPLICATION OF AMERADA PETROLEUM
CORPORATION FOR AN OIL-OIL DUAL
COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 25, 1961, at Santa Fe, New Mexico, before Daniel S. Nutter, 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 1st day of November, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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, Amerada Petroleum Corporation, proposes to complete its Ida Wimberly Well No. 11, located in the NW/4 SW/4 of Section 24, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion in such a manner as to permit the production of oil from the Justis-Paddock Pool through a tapered string of tubing of 2 3/8-inch and 2 1/16-inch diameter and the production of oil from the Justis-Blinbry Pool through a tapered string of tubing of 2 3/8-inch and 1-inch diameter, separation of zones to be with a Baker Model "D" Packer set at a depth of approximately 4950 feet.

(3) That the evidence indicates that both zones can be artificially lifted, if necessary, despite the tubing sizes.

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

(5) That approval of the subject application will neither cause waste nor impair correlative rights.

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CASE No. 2405
Order No. R-2108

IT IS THEREFORE ORDERED:

(1) That the applicant, Amerada Petroleum Corporation, is hereby authorized to complete its Ida Wimberly Well No. 11, located in the NW/4 SW/4 of Section 24, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion in such a manner as to permit the production of oil from the Justis-Paddock Pool through a tapered string of tubing of 2 3/8-inch and 2 1/16-inch diameter and the production of oil from the Justis-Blinebry Pool through a tapered string of tubing of 2 3/8-inch and 1-inch diameter, separation of zones to be with a Baker Model "D" Packer set at a depth of approximately 4950 feet.

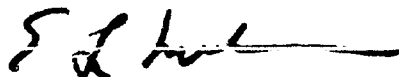
PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with Rule 112-A of the Commission Rules and Regulations.

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

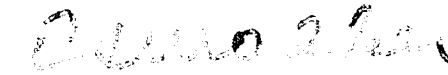
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

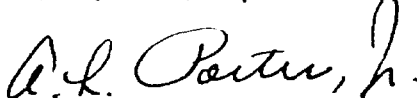
STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



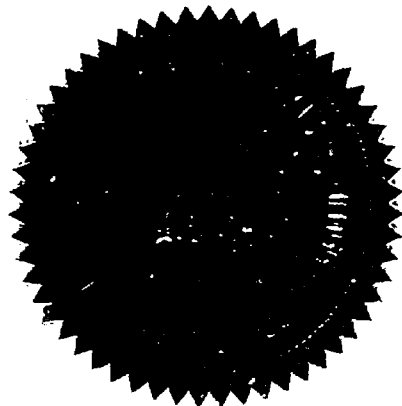
EDWIN L. MECHEM, Chairman



E. S. WALKER, Member



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



esr/

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER



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

P. O. BOX 871
SANTA FE

November 1, 1961

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

Re: Case No. 2404
2405
Order No. R-2107 & R-2108
Applicant:
Continental & Amerada

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

ir/

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

OTHER

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 10/27

CASE 2405

Hearing Date 9am 10/25

DSN @ SF

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

Enter an order approving the dual compl. of
Ameradas Dha Wimblerly Well No 11, NW 1/4 SW 1/4
24, 25S, 37E to produce oil from the Jato Pad
and Jato Bl Pools through the tapered
tubing strings proposed by applicant.

Incl. among findings that applicant
testified that both zones can be
artificially lifted, if necessary.

Sam Hume
Examiner

KELLAHIN AND FOX
ATTORNEYS AT LAW
54½ EAST SAN FRANCISCO STREET
POST OFFICE BOX 1713
SANTA FE, NEW MEXICO
Sept. 25, 1961

Page 2405

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

Gentlemen:

Enclosed for filing on behalf of Amerada Petroleum Corporation, is an application in triplicate for approval of the dual completion of Amerada's Ida Wimberly No. 11 well, located in the NW¼SW¼, Sec. 24, Township 25 South, Range 37 East, Lea County, New Mexico.

Due to the proposed tubing program involved in this completion, the application does not comply with the provisions of Rule 112-A, II(b), 4(c), providing for administrative approval.

When the date of hearing on this application has been set would you please advise me.

Yours very truly,

Jason W. Kellahin
Jason W. Kellahin

JWK:ss
Encl..

*Revised
10-11-61
JK*

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

THE APPLICATION OF AMERADA PETROLEUM)
CORPORATION FOR AN EXCEPTION TO RULE)
112-A, II(b), 4(c), TO DUAL COMPLETE)
THE AMERADA-I. WIMBERLY No. 11 WELL)
IN THE NW/4 SW/4 OF SECTION 24, TOWN-)
SHIP 25 SOUTH, RANGE 37 EAST, LEA)
COUNTY, NEW MEXICO)

CASE NO. 2705

APPLICATION

Applicant, Amerada Petroleum Corporation, states that:

1. Applicant is owner and operator of the Amerada-I. Wimberly No. 11 Well in the Justis Field located in the

NW/4 SW/4 of Section 24, Township 25 South,
Range 37 East, Lea County, New Mexico,

and formerly an oil well completed in the Justis-Blinebry Pool.
2. Applicant proposes to make said well an oil-oil dual completion well in the Justis-Paddock and the Justis-Blinebry Pools in the following manner:
 - (a) For completion in the Paddock, Applicant proposes to set a tapered string of tubing of 2 3/8" and 2 1/16" (outside diameter) to be perforated at an interval from 4880 to 4925 feet.
 - (b) For completion in the Blinebry zone, applicant proposes, to set a tapered string of tubing of 2 3/8" and 1" (outside diameter) to be completed open hole at an interval from 5325 to 5472 feet.
3. The above proposal, being an exception to Rule 112-A, II(b), 4(c), which provides that the Secretary-Director of the Commission shall have authority to grant administrative approval of a dual completion where, among other provisions, all strings of tubing have a nominal inside diameter of not less than 1.670 inches, is required to be heard before the Commission after due notice.

WHEREFORE, applicant requests that this matter be set for hearing, that notice of hearing be given as required by law and that upon conclusion of the hearing the Commission enter its order authorizing the proposals set forth above.

AMERADA PETROLEUM CORPORATION

By

H. D. Bushnell
H. D. Bushnell

KELLAHIN AND FOX

By

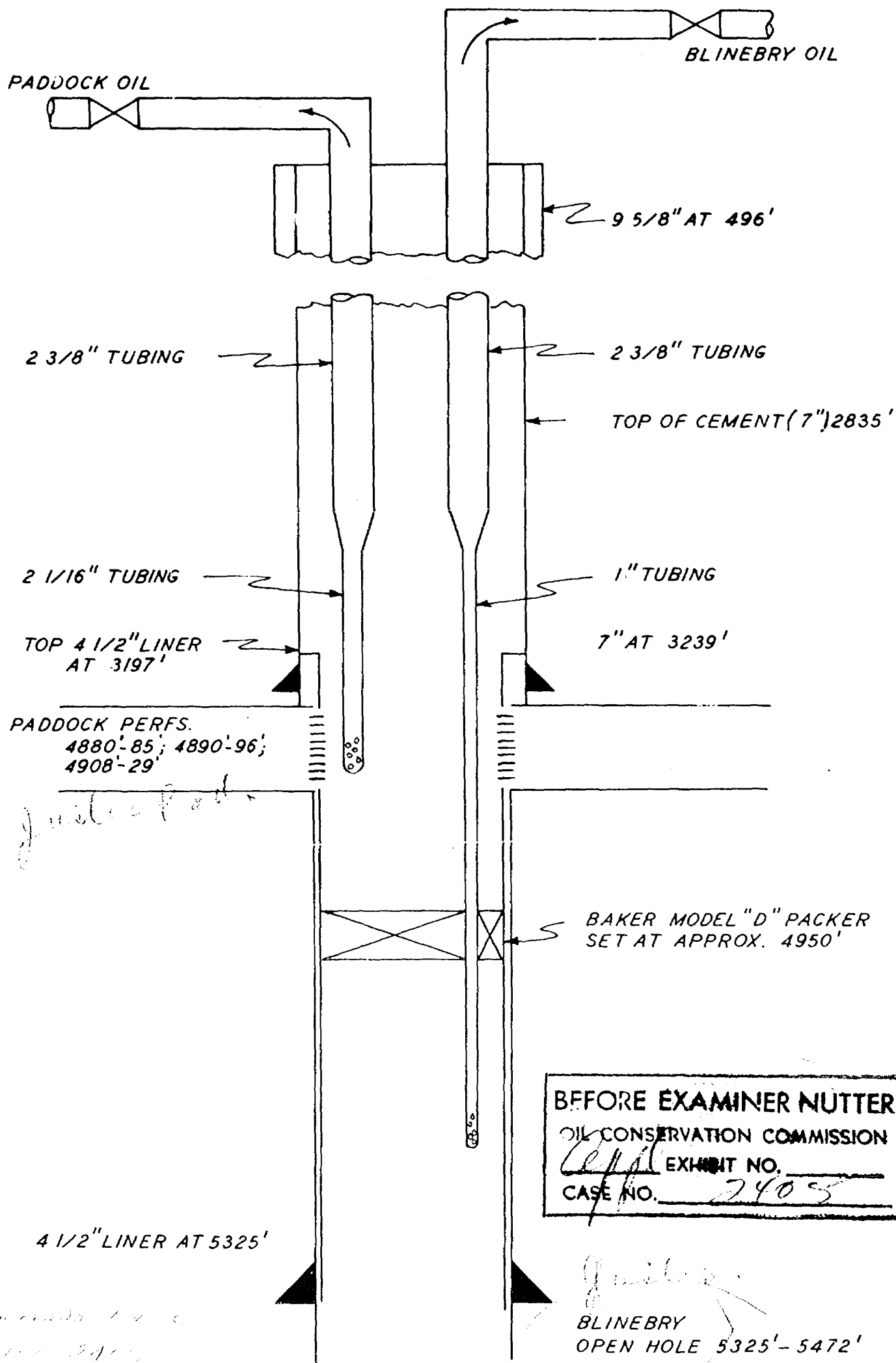
Jason W. Kellahin

Attorneys for Applicant

AMERADA PETROLEUM CORPORATION

IDA WIMBERLY NO. 11

JUSTIS FIELD, LEA CO., NEW MEXICO



BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
October 25, 1961

EXAMINER HEARING

IN THE MATTER OF:

Application of Amerada Petroleum Corpora-
tion for a dual completion, Lea County,
New Mexico. Applicant, in the above-
styled cause, seeks permission to complete
its Ida Wimberly Well No. 11, located in
the NW/4 SW/4 of Section 24, Township
25 South, Range 37 East, Lea County,
New Mexico, as a dual completion in the
Justis-Paddock and Justis-Blinebry Pools,
with the production of oil from the Paddock
zone to be through a tapered string of
tubing of 2 3/8-inch and 2 1/16-inch dia-
meter and the production of oil from the
Blinebry zone to be through a tapered
string of tubing of 2 3/8-inch and 1-inch
diameter.

CASE NO.
2405

BEFORE: Dan S. Nutter, Examiner.

TRANSCRIPT OF HEARING

EXAMINER NUTTER: We will call Case No. 2405.

MR. MORRIS: Application of Amerada Petroleum Corpora-
tion for a dual completion, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin & Fox represent-
ing the Applicant.

We have one witness we'd like to have sworn.

(Witness sworn.)

A. E. SNYDER

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

ALBUQUERQUE, N. M.
PHONE 243-6631



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FARMINGTON, N. M.
PHONE 325-1182

ALBUQUERQUE, N. M.
PHONE 243 6631

called as a witness by and on behalf of the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please.

A A. E. Snyder.

Q By whom are you employed and in what position?

A Amerada Petroleum Corporation as a district engineer in Hobbs, New Mexico.

Q Have you previously testified before this Oil Conservation Commission as a petroleum engineer and made your qualifications a part of record?

A Yes, sir.

MR. KELLAHIN: Are the witness's qualifications acceptable?

EXAMINER NUTTER: Yes, sir. Please proceed.

Q (By Mr. Kellahin) Mr. Snyder, are you familiar with the application of Amerada Petroleum Corporation in Case No. 2405?

A Yes, sir.

Q Would you state briefly what is proposed in this application?

A In this application, Amerada proposes to dually complete a well that has been produced for some time from the Blinebry zone in the Justis field and to dual it also in the Paddock zone with the Blinebry.



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Q Have you prepared a plat showing the location of the proposed dual completion of the well within a two-mile radius?

A Yes. This plat is shown as Amerada's Exhibit A. On the plat we have shown the general outline of the Justis pools, the well location thereon and zone of completion of each of the wells. The Amerada's Ida Wimberly Well is outlined in red and the Wimberly Well No. 11 located in the northwest quarter of the southwest quarter of Section 24, Township 25 South, Range 37 East, Lea County, is circled in red. This is the well that we propose to make the dual completion in.

Q Are there any other dual completions within this area in the Blinebry-Paddock zones?

A The only other dual completion in the area is the immediate offset well to the west. It is a Paddock and Blinebry dual.

Q Is the area involved here within the defined limits of the Justis-Paddock and Justis Blinebry pools?

A Yes.

Q Referring to what has been marked Exhibit B, would you discuss the information shown on that Exhibit?

A Exhibit B is the electric log of the subject well. On the bottom part of the log I have shown the base of the Justis gas and the top of the Paddock oil zone as 4868 and the proposed Paddock perforations at 4880 to 4885, 4890 to 4896, 49 to 48, 4929. The base of the Paddock oil zone and the top of the Blinebry oil



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zone as 4988. It shows the $4\frac{1}{2}$ liner set at 5323; the Blinebry completion in open hole from 5325 to a total depth of 5472.

Q Now, referring to what has been marked as Exhibit C, would you discuss the information shown on that Exhibit?

A Exhibit C is a diagrammatic sketch of the equipment necessary to make this dual completion. The $4\frac{1}{2}$ liner necessitates running some tubing that is smaller in inside diameter than is set out in the Commission's rules and regulations. We propose to set a baker model D packer at 4950 feet and run a string of $2\frac{3}{8}$ tubing through the packer to produce the Blinebry zone and a combination string of $2\frac{3}{8}$ tubing, $2\frac{1}{16}$ inch tubing to produce the Paddock zone.

Q Is it solely on account of the size of the tubing used in the Blinebry completion the reason for this application?

A Yes, sir.

Q Otherwise, it would be subject to approval by administrative action, is that correct?

A Yes.

Q Are you familiar with the pressure in the two different zones?

A I have no pressure information in the Paddock zone. We have not made a completion in that zone.

Q On the basis of your experience in this area, is there any significant difference in the pressures which would interfere with a dual completion of this type?



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A No.

Q Is this a type of dual completion which has heretofore been approved by the Commission for the two zones?

A Yes.

Q Were Exhibits A, B and C prepared by you or under your supervision?

A Yes.

MR. KELLAHIN: We offer in evidence Exhibits A, B and C.

EXAMINER NUTTER: Amerada's Exhibits A, B and C will be entered.

MR. KELLAHIN: That's all we have.

EXAMINER NUTTER: Are there any questions of Mr. Snyder?

EXAMINATION

BY EXAMINER NUTTER:

Q Mr. Snyder, to what zone was this originally drilled?

A The Blinebry zone.

Q You set your seven inch pipe at 3239 feet and then ran a 4½" line?

A Yes.

Q Is the Blinebry producing from open hole?

A Yes, sir.

Q Do you anticipate any kind of production problems in using the 1 inch pipe?

A No, sir.



Q You will artificially lift the well if necessary?

A If necessary we will be able to artificially lift it.

Q How will you do it?

A By gas lift.

Q Do you anticipate, then, how you would gas lift it?

A There are a number of different ways we could do it.

We could run a conventional string of small tubing in the 2 and 16s with gas lift valves or we could run gas lift valves the same size as the tubing in the tubing string and use the annulus as the gas chamber supply.

Q You would have to assume then that the fluid left from the Blinebry would stand above the Paddock perforations to gas lift the annulus and have another packer above that?

A We could do that.

Q It wouldn't be possible to use a conventional string of tubing?

A No, it wouldn't get inside the 1 inch. Actually, we feel there will be very little artificial lifting done in the Blinebry. Its producing nature indicates a large part of its problem will be by natural flow.

Q How do the GORs compare in those two zones, Mr. Snyder?

A The GORs in the Blinebry zone on our different examinations averages about 2000. Some are a little higher than others. The information I have on the Paddock is in the well immediately offsetting our No. 11 to the west and this is gas sales figures.



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Gas sales figures indicate that that well had a GOR of 600 to 1.

Q How about gravity, is there a gravity differential?

A The two gravities are very close, ranging from 36 to 38 degrees.

EXAMINER NUTTER: Are there any other questions of Mr. Snyder?

He may be excused.

(Witness excused)

EXAMINER NUTTER: Do you have anything further?

MR. KELLAHIN: That's all.

EXAMINER NUTTER: Does anyone have anything he wishes to offer in this case?

If not, the case will be taken under advisement and we will take a ten-minute recess.

(Recess taken.)



STATE OF NEW MEXICO)
) SS
 COUNTY OF SAN JUAN)

I, THOMAS F. HORNE, Court Reporter, in and for the County of San Juan, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

Thomas F. Horne
 Notary Public

My Commission expires:

10-5-65

I do hereby certify that the foregoing is a complete and correct transcript of the proceedings in the hearing of Case No. 2405 heard by me on 10/25, 1961.

[Signature], Examiner
 New Mexico Oil Conservation Commission

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