

CASE 2104: Application of SHELL for
permission to commingle Drinkard &
Tubb production.

Case No.

2104

Application, Transcript,
Small Exhibits, Etc.

DRAFT

RSM/esr
October 20

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. 2104
Order No. R-1803

10/20
10/20
TWO
APPLICATION OF SHELL OIL COMPANY
FOR PERMISSION TO COMMINGLE THE
PRODUCTION FROM ~~SEVERAL~~ SEPARATE
POOLS IN 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 19, 1960, 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 day of October, 1960, 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, Shell Oil Company, is the owner
and operator of the E/2 NW/4 of Section 4, Township 22 South,
Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant proposes to commingle the ^{oil produced from the} Drinkard
^{liquid hydrocarbons} ~~gas~~ produced from the Tubb Gas Pool
Pool production with the ~~gas~~ production from all wells
located on the above-described acreage, after separately meter-
ing the production from the Tubb ^{Gas} Pool only.

(4) That all ^{oil} wells from which the production is proposed
to be commingled are marginal wells.

(5) That the ownership of the above-described acreage is
common at all depths.

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

IT IS THEREFORE ORDERED:

That the applicant, Shell Oil Company, be and the same is hereby authorized to commingle the ^{oil produced from the} Drinkard Pool ~~production~~ with the ~~liquid hydrocarbons produced from the~~ ^{Tubb Gas Pool} ~~the Tubb Pool production~~ from all wells located on the E/2 NW/4 of Section 4, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, after separately metering the production from the Tubb Pool.

PROVIDED HOWEVER, That the applicant shall notify the Commission's Santa Fe Office in the event either, or both, of the Drinkard wells located on said acreage become top allowable wells, at which time ~~this~~ case may be reopened.

PROVIDED FURTHER, That the applicant shall install adequate facilities to permit the testing of all wells on the said acreage at least once each month to determine the individual production from each well.

IT IS FURTHER ORDERED:

~~That the meter used in the above described automatic casing~~
~~shall be operated and maintained in such a manner~~
as to ensure an accurate measurement of the liquid hydrocarbon production at all times.

That ^{the meter} ~~meters~~ shall be checked for accuracy at least once each month until further direction by the Secretary-Director.

That ^{the} ~~meters~~ shall be calibrated against a master meter or against a test tank of measured volume and the results of such calibration filed with the Commission on the Commission form entitled "Meter Test Report."

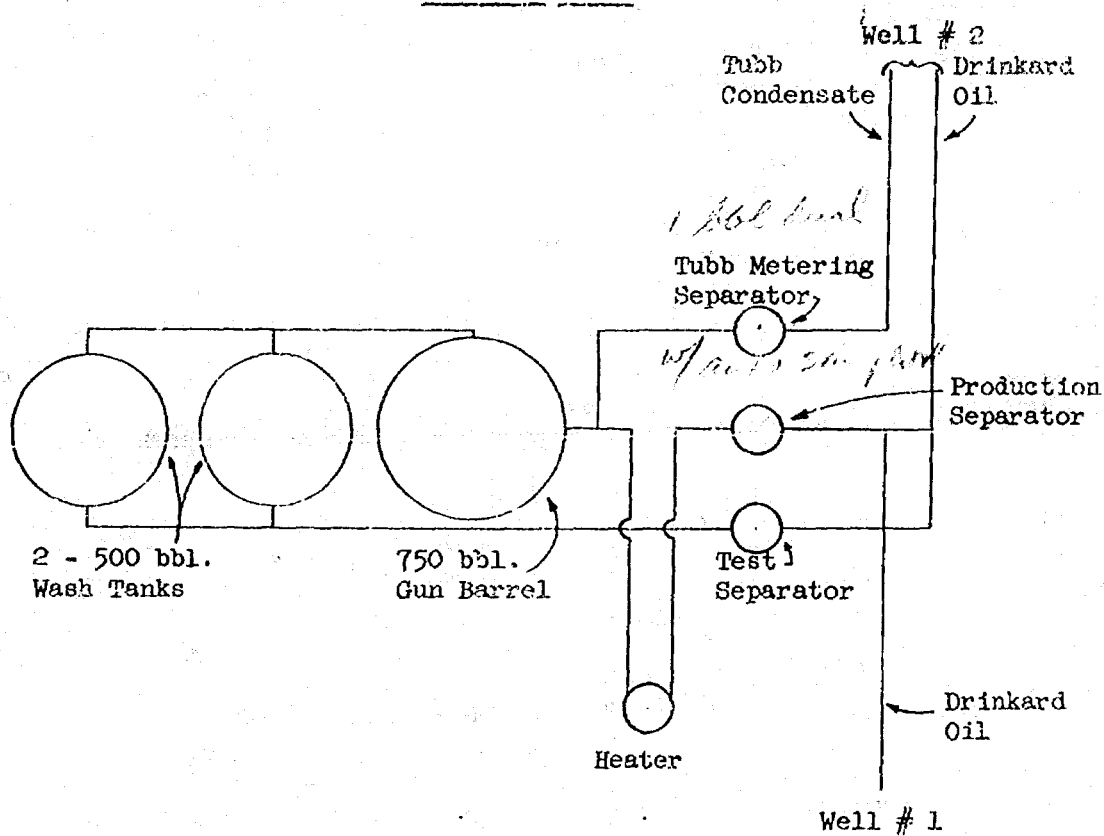
Done at Santa Fe, New Mexico, on the day and year hereinabove designated.

IT IS FURTHER ORDERED:

That the meter used to determine the ^{liquid hydrocarbon} production from the Tubb ^{gas} Pool

Et hyl-
this is
OK
OK

Rinewalt Lease
DRINKARD FIELD



NOTE: All lease equipment except the proposed Tubb Condensate line pipe and Tubb metering separators, is now in existence.

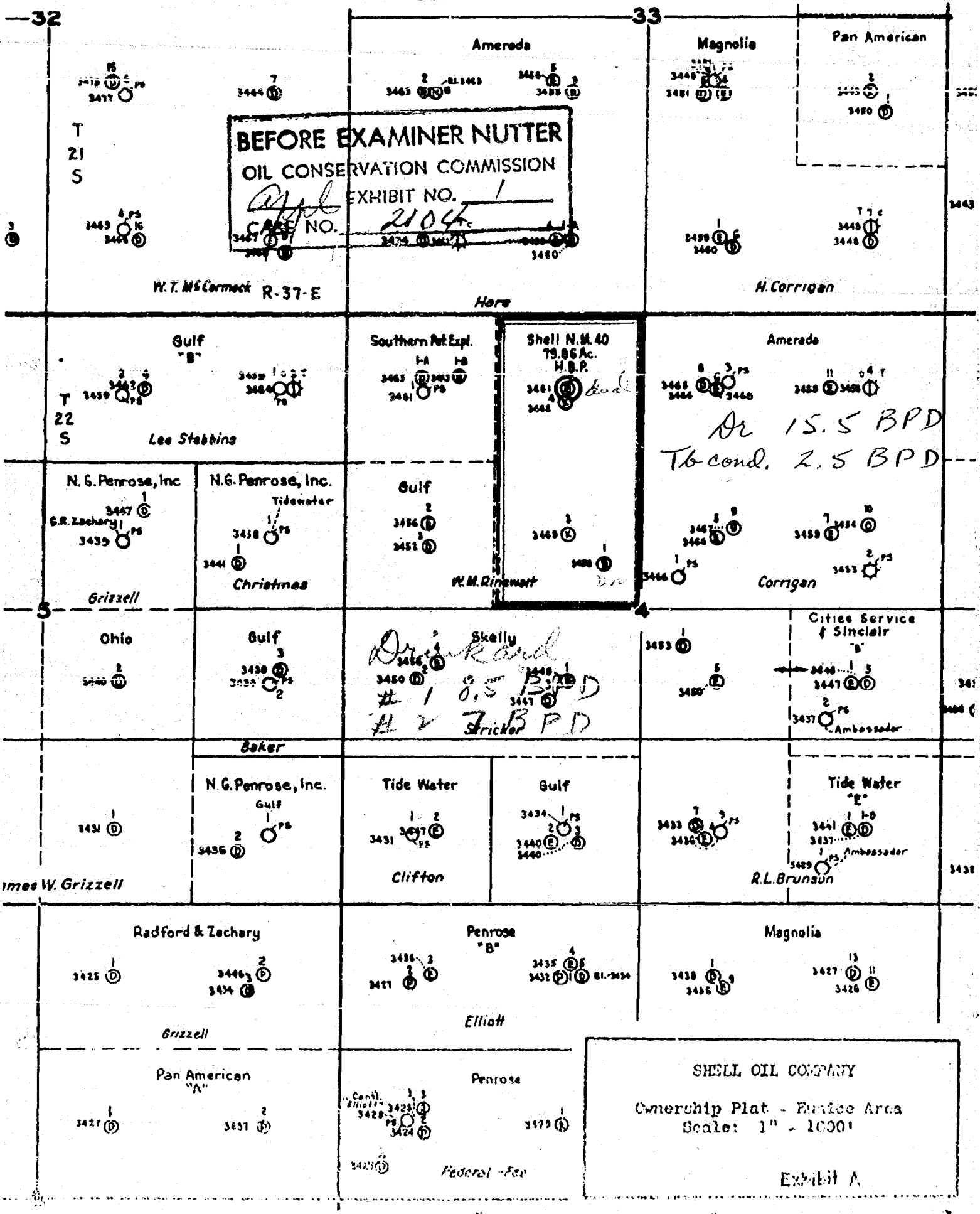
*60° Th
38° Dr*

*40.4 comm grow
\$145/mo inc in rev.
\$1000 to \$3000 save thru
metering only 1 zone.*

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Appl EXHIBIT NO. 2
CASE NO. 2104

SHELL OIL COMPANY
Exhibit "B"
Application for Commingling
Tubb Condensate and Drinkard Oil

will decrease with time



Memo

From

D. S. Nutter
Chief Engineer

To

OK w/ provision that
applicant shall notify
the Commission's Sec. As
7E ofc in the event
either or both of the
Dr wells become
capable of making
top allowable, at which
time the case may
be reopened

MAIN OFFICE OCC
SEP 21 PM 3:45

BEFORE THE OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF
SHELL OIL COMPANY FOR AN EXCEPTION
TO RULE 303 TO PERMIT THE COMMINGLING
OF LIQUID HYDROCARBON PRODUCTION FROM
THE TUBB ZONE WITH SIMILAR PRODUCTION
FROM THE DRINKARD ZONE FROM WELLS IN
SECTION 4, TWP. 22 S., RGE. 37 E., LEA
COUNTY, NEW MEXICO

Case 2104

APPLICATION

The applicant requests approval of this application for an exception to Rule 303 of the Rules of the Commission to permit the commingling of production from two separate zones as herein-after described.

The applicant proposes that it be permitted to commingle the liquid hydrocarbon from the Tubb zone with the Drinkard oil production from the wells located on the E $\frac{1}{2}$ NW $\frac{1}{4}$ Section 4, Twp. 22 S., Rge. 37 E., N.M.P.M. The applicant has requested approval for the dual completion of the Rinewalt No. 2 well (which is a Drinkard oil well) with the Tubb gas zone. Applicant desires to commingle the liquid production from the Tubb zone with the Drinkard oil production but to meter only the Tubb production. Applicant further proposes to commingle such production with the Drinkard production from the Rinewalt No. 1 well. Both of the above described wells being located on the 80-acre tract described above.

Applicant shows that the cost of metering both zones is not justified by reason of the small production. It is estimated that approximately two and one-half barrels of Tubb condensate will be commingled with the seven barrels and eight barrels of oil produced from the two Drinkard wells.

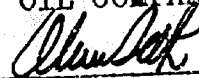
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mailed
10-5-60

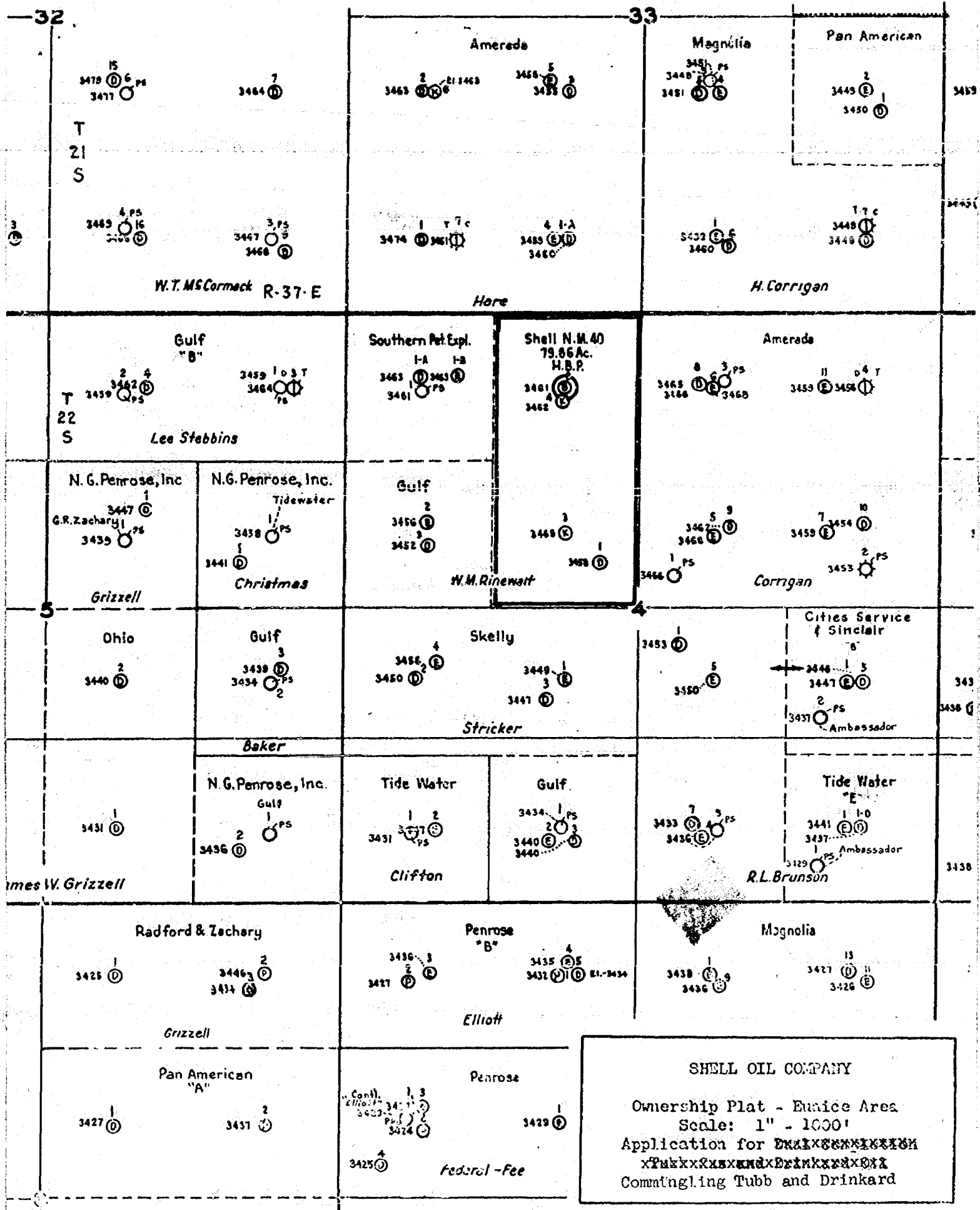
WHEREFORE, applicant requests that this matter be set down for a hearing before an examiner and that approval be given to its application herein. A plat showing the area which is the subject of this application is attached to the original copy of this application.

Respectfully submitted,

SHELL OIL COMPANY

By





DOCKET: EXAMINER HEARING, WEDNESDAY, OCTOBER 19, 1960

Oil Conservation Commission - 9 a.m., Mabry Hall, State Capitol, Santa Fe, NM

The following cases will be heard before Daniel S. Nutter, Examiner, or Oliver E. Payne, Attorney, as Alternate Examiner:

- CASE 2099: Application of Continental Oil Company for an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the installation of an automatic custody transfer system to handle the Eunice Pool production from all wells presently completed or hereafter drilled on the Meyer B-4 Lease consisting of the E/2 and the E/2 W/2 of Section 4, Township 21 South, Range 36 East, Lea County, New Mexico.
- CASE 2100: Application of Continental Oil Company for an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the installation of an automatic custody transfer system to handle the Maljamar Paddock Pool production from all wells presently completed or hereafter drilled on the William Mitchell "A" Lease consisting of the N/2 of Sections 19 and 20, Township 17 South, Range 32 East, Lea County, New Mexico.
- CASE 2101: Application of Cities Service Oil Company for an order force-pooling all mineral interests in a standard 80-acre oil production unit. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests within the vertical limits of the Southwest Gladiola-Devonian Pool in a standard 80-acre unit consisting of the S/2 SW/4 of Section 27, Township 12 South, Range 37 East, Lea County, New Mexico. The non-consenting royalty owners include B. F. Turner and wife, George C. Koch and wife, Hugh O. Sears and wife, Harry J. Kaindl and wife, and Clark and Judge Properties, a partnership.
- CASE 2102: Application of Amerada Petroleum Corporation for permission to commingle the production from several separate pools and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to commingle the Blinebry, Drinkard, and Fusselman production from all wells on its 100-acre Wimberley lease comprising portions of Sections 24, 25 and 26, Township 25 South, Range 37 East, Lea County, New Mexico. Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production.

CASE 2103: Application of Gulf Oil Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Vinson-Ramsay "B" Well No. 6, located in Unit K, Section 36, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Justis-Blinebry Pool and the production of oil from an undesignated Tubb Pool through parallel strings of 1½-inch tubing.

CASE 2104: Application of Shell Oil Company for permission to commingle the production from separate pools. Applicant, in the above-styled cause, seeks permission to commingle the Drinkard Pool and Tubb Pool production from all wells located in Section 4, Township 22 South, Range 37 East, Lea County, New Mexico, after separately metering the production from the Tubb Pool only.

CASE 2105: Application of Shell Oil Company for permission to commingle the production from two separate pools from several separate leases and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks permission to commingle the Eunice and Eumont Pool production from all wells on four leases in Section 1, Township 21 South, Range 35 East, and Section 6, Township 21 South, Range 36 East, Lea County, New Mexico. Applicant further seeks authorization to install an automatic custody transfer system to handle said commingled production.

CASE 2106: Application of Texaco Inc. for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of the State "BH" Well No. 3, located in Unit E, Section 11, Township 12 South, Range 32 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Wolfcamp Pool and the production of oil from an undesignated Pennsylvanian Pool through parallel strings of tubing.

CASE 2107: Application of Pan American Petroleum Corporation for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the Denton (Devonian) and Denton (Wolfcamp) Pool production from two wells on the W. H. Fort "A" lease comprising the E/2 of Section 25, Township 14 South, Range 37 East, Lea County, New Mexico, without separately metering the production from each pool.

Docket No. 31-60

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CASE 2108: Application of Chambers and Kennedy for an unorthodox oil well location. Applicant, in the above-styled cause, seeks approval of an unorthodox location for its Sinclair State Well No. 1 to be located in an undesignated Abo pool at a point 990 feet from the South line and 200 feet from the West line of Section 35, Township 17 South, Range 28 East, Eddy County, New Mexico.

CASE 2109: Application of Jack S. Reaves for the establishment of a 52-acre non-standard oil proration unit. Applicant, in the above-styled cause, seeks an order establishing a 52-acre non-standard Delaware oil proration unit consisting of lots 3 and 4 of Section 36, Township 26 South, Range 28 East, Eddy County, New Mexico.

CASE 2110: Application of Chambers and Kennedy for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Monterey State Well No. 3, located 660 feet from the North line and 1650 feet from the West line of Section 32, Township 18 South, Range 31 East, Eddy County, New Mexico, in such a manner as to permit the production of oil from an undesignated Yates oil pool and the production of oil from the North Shugart-Queen Grayburg Pool through parallel strings of 2-inch tubing.

GOVERNOR
JOHN BURROUGHS
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
MURRAY E. MORGAN
MEMBER



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

P. O. BOX 871
SANTA FE

October 24, 1960

Mr. William Federici
Attorney at Law
Box 828
Santa Fe, New Mexico

Re: Case No. 2104
Order No. R-1803
Applicant:

Shell Oil Company

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
Anteo OCC

Other

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. 3104
Order No. R-1803

APPLICATION OF SHELL OIL COMPANY
FOR PERMISSION TO COMMINGLE THE
PRODUCTION FROM TWO SEPARATE
POOLS IN 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 19, 1960, 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 24th day of October, 1960, 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, Shell Oil Company, is the owner and operator of the E/2 NW/4 of Section 4, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant proposes to commingle the oil produced from the Drinkard Pool with the liquid hydrocarbons produced from the Tubb Gas Pool from all wells located on the above-described acreage, after separately metering the production from the Tubb Gas Pool only.

(4) That all oil wells from which the production is proposed to be commingled are marginal wells.

(5) That the ownership of the above-described acreage is common at all depths.

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

-2-

CASE No. 2104
Order No. R-1803

IT IS THEREFORE ORDERED:

That the applicant, Shell Oil Company, be and the same is hereby authorized to commingle the oil produced from the Drinkard Pool with the liquid hydrocarbons produced from the Tubb Gas Pool from all wells located on the E/2 NW/4 of Section 4, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, after separately metering the production from the Tubb Pool.

PROVIDED HOWEVER, That the applicant shall notify the Commission's Santa Fe Office in the event either, or both, of the Drinkard wells located on said acreage become top allowable wells, at which time this case may be reopened.

PROVIDED FURTHER, That the applicant shall install adequate facilities to permit the testing of all wells on the said acreage at least once each month to determine the individual production from each well.

IT IS FURTHER ORDERED:

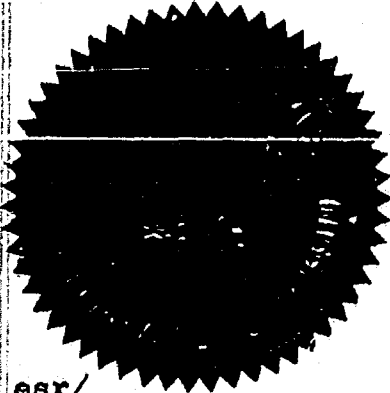
That the meter used to determine the liquid hydrocarbon production from the Tubb Gas Pool shall be operated and maintained in such a manner as to ensure an accurate measurement of the liquid hydrocarbon production at all times.

That the meter shall be checked for accuracy at least once each month until further direction by the Secretary-Director.

That the meter shall be calibrated against a master meter or against a test tank of measured volume and the results of such calibration filed with the Commission on the Commission form entitled "Meter Test Report."

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION



John Burroughs
JOHN BURROUGHS, Chairman

Murray E. Morgan
MURRAY E. MORGAN, Member

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

esr/

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
October 19, 1960

EXAMINER HEARING

IN THE MATTER OF:

Application of Shell Oil Company for permis-
sion to commingle the production from separate
pools. Applicant, in the above-styled cause,
seeks permission to commingle the Drinkard
Pool and Tubb Pool production from all wells
located in Section 4, Township 22 South, Range
37 East, Lea County, New Mexico, after sepa-
rately metering the production from the Tubb
Pool only.) Case 2104

BEFORE:

Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. MORRIS: Application of Shell Oil Company for per-
mission to commingle the production from separate pools.

MR. FEDERICI: William Federici, of Seth and Montgomery,
appearing for Shell Oil Company. I have one witness, Bob Sumerwell.

(Whereupon, witness sworn.)

R. L. SUMERWELL

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

DIRECT EXAMINATION

BY MR. FEDERICI:

Q Would you state your name.

A R.L. Sumerwell.

Q Your residence?



DEARNLEY-MEIER REPORTING SERVICE, Inc.

PHONE CN 3-6691

ALBUQUERQUE, NEW MEXICO

A Roswell, New Mexico.

Q Who is your employer?

A Shell Oil Company.

Q Have you appeared before the Commission as a witness before?

A No, sir; I haven't.

Q Will you state your educational background?

A I have a B.S. degree in Mechanical Engineering from Texas A. and M. College, a Bachelor of Arts from Baylor University.

Q What position do you hold with Shell Oil Company?

A Mechanical Engineer.

Q And what experience have you had?

A I have been with Shell three and a half years, about six months in Kilgore and a year on the training program, and I have been in Roswell two years; the last year and a half I have been associated with automation, all types of mechanical equipment.

MR. FEDERICI: Are the qualifications of the witness as an expert acceptable?

MR. NUTTER: They are.

Q (By Mr. Federici) Are you acquainted with the application in Shell Case 2104?

A Yes, sir; I sure am. Shell is proposing that the condensate from the Tubb's dual completion be commingled with the production from two Drinkard pools on Shell's lease in Section 4, Township 22 South, Range 37 East.



Q I hand you what has been marked as Exhibit No. 1.

A The upper concentrated circles represent the Rinewalt, which is dually completed as a Drinkard Oil Well; the well in the lower right hand corner is a Drinkard Well and is under consideration here for commingling.

Q Where are the batteries?

A The batteries are located approximately in the middle.

Q Does it give the area involved?

A Sir?

Q The area involved, marked in red.

A Yes, sir; that is the lease in question. The 80 acres inclosed in red there.

Q Will you give the production of the wells?

A Yes, sir. The two Drinkard Wells make approximately 15.5 barrels of oil per day, and we expect approximately 2.5 barrels of oil condensate from the Tubb zone.

(Whereupon, Exhibit 2 marked for identification.)

Q (By Mr. Federici) I hand you what has been marked as Exhibit 2, and ask you to explain to the Commission what that is?

A Exhibit 2 is a sketch of the proposed mechanical installation, and with the exception of the upper separator, the Tubb metering separator, the equipment is already in place and has been serving the Drinkard. Production will not change that, all we merely propose, is to add a metering separator and sampler to



measure the Tubb condensate. The gravities of the two zones are 60 for the Tubb zone condensate, and the Drinkard is approximately 38; which will increase the gravity into the higher gravity, the commingled will be 40.4, which the increased revenue is 45 dollars through the higher gravity commingled crude.

Q Will you explain the metering separator?

A The separator we propose for the Tubb condensate is just a one barrel dump metering separator.

Q Has Shell used this method of metering before?

A Yes, sir; we sure have.

Q Has it proved satisfactory?

A Yes.

Q And with use of this facility, would this result in savings of some kind?

A Yes, we anticipate anywhere from one thousand to three thousand dollars of cost, initial cost savings through metering only one zone.

Q In your opinion, if the application is granted in Case 2104, would this be in the interest of conservation and the prevention of waste?

A I believe it would, in producing only two and a half barrels a day from the Tubb zone. The condensate would weather anywhere from twenty to thirty days before we could run a tank of oil. This would accelerate the frequency of runs from this lease.

Q Were Exhibits 1 and 2 prepared under your supervision?

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ALBUQUERQUE, NEW MEXICO

PHONE CM 3-669



A Yes, sir; they sure were.

MR. FEDERICI: We offer Shell's Exhibits No. 1 and 2.

MR. NUTTER: Shell's 1 and 2 will be admitted in evidence.

MR. FEDERICI: I think that is all.

MR. NUTTER: Does anyone have any questions?

CROSS-EXAMINATION

BY MR. MORRIS:

Q Mr. Sumerwell, I note that you plan to meter the production from the Tubb only, rather than metering the production from the Drinkard. Could you explain why you chose to meter the Tubb rather than the Drinkard, when you have more production actually coming from your Drinkard Wells?

A We chose to meter the Tubb because we don't make any water with that condensate and will be less air.

Q Do you feel that metering the Tubb then, that since in this case you are now planning to meter the Tubb, it is more preferable?

A Yes, sir; we sure do.

MR. MORRIS: That is all.

CROSS-EXAMINATION

BY MR. NUTTER:

Q Mr. Sumerwell, you stated the Tubb is making two and a half barrels per day, and the Drinkard, 15.5; is that the total from the two Drinkard Wells or an average of each?

A The total from Well No. 2, makes approximately 7 barrels



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PHONE CH 3-6691

ALBUQUERQUE, NEW MEXICO

of oil. and No. 1 makes 8.5.

Q Is the lease fully developed as far as Drinkard production is concerned?

A Yes, sir; it sure is.

Q Do you anticipate drilling any more Tubb wells on this lease?

A No, sir.

Q Do you anticipate the production from either of the two zones will go up?

A No, sir; we don't expect it to, at least.

Q Shell will be willing to take another look in the event the Drinkard were able to make top allowable?

A Should it become top allowable, we would review it.

Q I note that the production from the Drinkard passes through the heater; but the Tubb, it's not necessary?

A No, sir.

Q To heater treat it?

A This is a new well and we don't expect to have to treat it. We probably wouldn't have to send it through the gun barrel.

Q Do you have ample storage facilities to handle production from the commingled zones?

A A thousand barrel storage.

MR. NUTTER: Any further questions of Mr. Sumerwell?

(No response.)

MR. NUTTER: Mr. Federici?



MR. FEDERICI: No, sir.

MR. NUTTER: If there are no further questions, he may be excused. Do you have anything further, Mr. Federici?

MR. FEDERICI: No.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2104?

(No response.)

MR. NUTTER: We will take the case under advisement and call Case 2105.

(Whereupon, the hearing was concluded.)

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PHONE CH 3-6691

ALBUQUERQUE, NEW MEXICO



I N D E XWITNESS:PAGE

R. L. SUMERWELL

Direct Examination by Mr. Federici

1

Cross-Examination by Mr. Morris

5

Cross-Examination by Mr. Nutter

5

E X H I B I T S

<u>Number</u>	<u>Marked for Identification</u>	<u>Offered</u>	<u>Received</u>
App 1 & 2	3	5	5

DEARNLEY-MEIER REPORTING SERVICE, Inc.

PHONE CH 3-6691

ALBUQUERQUE, NEW MEXICO



STATE OF NEW MEXICO)
) ss
 COUNTY OF BERNALILLO)

I, LEWELLYN NELSON, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 19 day of November, 1960.

Llewellyn J. Nelson

Notary Public-Court Reporter

My commission expires:

June 14, 1964.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2104 heard by me on 10/19, 1960.

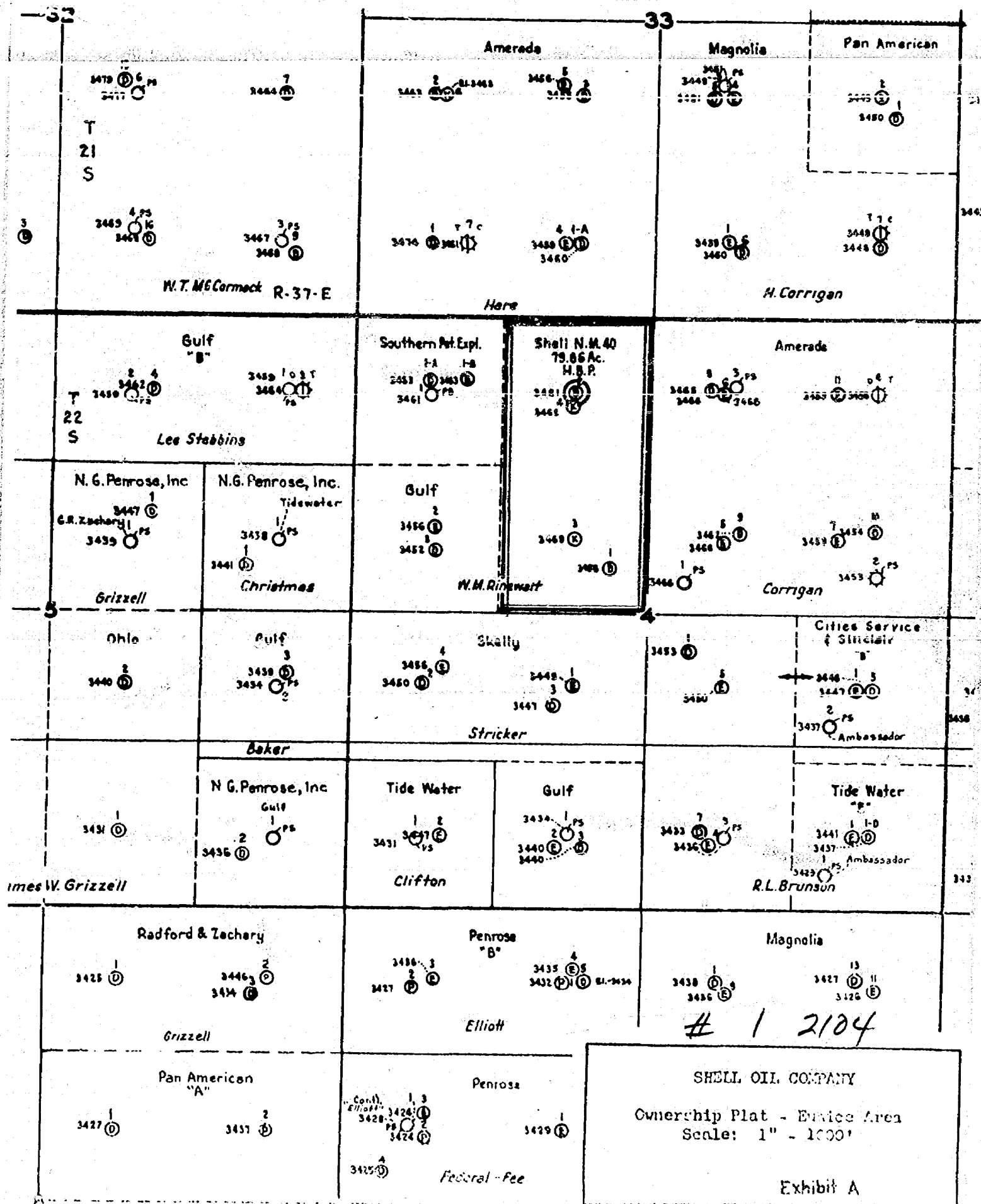
[Signature] Examiner
 New Mexico Oil Conservation Commission

DEARNLEY-MEIER REPORTING SERVICE, Inc.

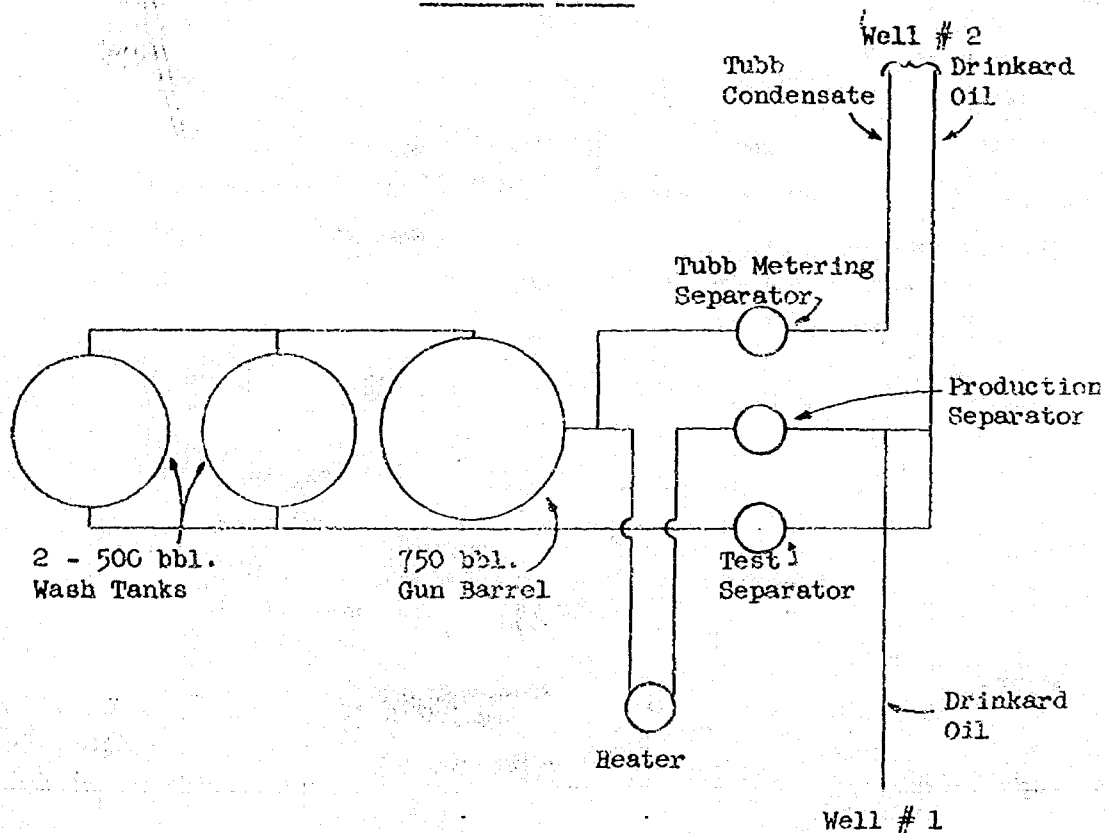
ALBUQUERQUE, NEW MEXICO

PHONE CH 3-6691





Rinevalt Lease
DRINKARD FIELD



NOTE: All lease equipment except the proposed Tubb Condensate line pipe and Tubb metering separators, is now in existence.

2 2104

SHELL OIL COMPANY

Exhibit "B"
Application for Commingling
Tubb Condensate and Drinkard Oil