

CASE 3536: Application of TENNECO
for two unorthodox gas well loca-
tions, San Juan & Rio Arriba.

CASE No.
3536

Application,
TRANSCRIPTS,
SMALL 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. 3536
Order No. R-3202

APPLICATION OF TENNECO OIL COMPANY
FOR TWO UNORTHODOX GAS WELL LOCA-
TIONS, SAN JUAN AND RIO ARRIBA
COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 8, 1967,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 14th day of March, 1967, 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, Tenneco Oil Company, seeks approval
of unorthodox gas well locations in the Blanco-Mesaverde Gas Pool
for its following-described wells:

Dawson Federal Well No. 1, located 835 feet from
the North line and 1150 feet from the West line
of Section 26, Township 27 North, Range 8 West,
NMPM, San Juan County, New Mexico, and

Jicarilla "C" Well No. 8, located 1850 feet from
the North line and 790 feet from the West line
of Section 13, Township 26 North, Range 5 West,
NMPM, Rio Arriba County, New Mexico.

(3) That the subject wells were originally projected to the
Dakota formation and were drilled at standard locations for the
Basin-Dakota Gas Pool.

-2-

CASE No. 3536
Order No. R-3202

(4) That approval of the subject application should result in the recovery of otherwise unrecoverable gas as the applicant proposes to dually complete the subject wells in the Basin-Dakota Gas Pool and the Blanco-Mesaverde Gas Pool, and the geological conditions in the area will not justify single completion in the Blanco-Mesaverde Gas Pool.

(5) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the Blanco-Mesaverde 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 otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Tenneco Oil Company, is hereby authorized unorthodox gas well locations in the Blanco-Mesaverde Gas Pool for its following-described wells:

Dawson Federal Well No. 1, located 835 feet from the North line and 1150 feet from the West line of Section 26, Township 27 North, Range 6 West, NMPM, San Juan County, New Mexico, and

Jicarilla "C" Well No. 8, located 1850 feet from the North line and 790 feet from the West line of Section 13, Township 26 North, Range 5 West, NMPM, Rio Arriba County, New Mexico.

(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

David F. Cargo
DAVID F. CARGO, Chairman

Guyton B. Hays
GUYTON B. HAYS, Member

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

S E A L

esr/

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

Case 3536
LEGAL DIVISION
PHONE 827-2741

February 10, 1967

C
O
P
Y

Tenneco Oil Company
P. O. Box 1714
Durango, Colorado 81302

Attention: Mr. Robert E. Siverson

Gentlemen:

We have your letter of February 7, 1967, requesting administrative approval for an unorthodox Mesaverde location for your Dawson Federal Well No. 1 835 feet from the North line and 1150 feet from the West line of Section 26, Township 27 North, Range 8 West, NMPM, San Juan County, New Mexico.

The Commission rules do not provide for administrative approval for an unorthodox location in an off-pattern quarter-quarter section. Please advise if you desire a hearing concerning this application.

Very truly yours,

GEORGE M. HATCH
Attorney

GMH/esr

cc: Oil Conservation Commission - Aztec

MAILED
Date 2-24-67
M

TENNECO OIL COMPANY

A Major Component of Tenneco Inc.
P. O. BOX 1714 • 835 SECOND AVENUE • DURANGO, COLORADO 81302



February 7, 1967

*NSI
Notify Tennessee that
Commission rules do not
provide for admin. approval for
a location in an off pattern
4/4 section.*

Case 3536

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

Re: Unorthodox Mesaverde Location
Dawson Federal No. 1
835 FNL, 1150 FWL
Sec. 26, T-27-N, R-8-W
San Juan County, New Mexico

Gentlemen:

Request Administrative Approval for unorthodox location on the above well.

This is a Dual Basin Dakota and Blanco Mesaverde well. It was drilled primarily as a single Basin Dakota well and was drilled on a standard Dakota location. However, topographical reasons in the Southwestern quarter of this section also prevented staking a standard Mesaverde location in this quarter without undue difficulties.

All offset operators will be furnished a copy of this request.

Very truly yours,

TENNECO OIL COMPANY

Robert E. Siverson
Robert E. Siverson
District Production Superintendent

HCN/mkw
Attachment/Plat

cc: New Mexico Oil Conservation Commission - Aztec
R & G Drilling, Farmington
Great Lakes Natural Gas Corp, Los Angeles, Calif.
Sinclair O & G, Denver
John A. Egan, Farmington

GOVERNOR
DAVID F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

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

P. O. BOX 2088
SANTA FE

Mr. Booker Kelly
White, Gilbert, Koch & Kelly
Attorneys at Law
Post Office Box 787
Santa Fe, New Mexico

Re: Case No. 3536
Order No. R-3202
Applicant:
TENNECO 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

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC x

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. 2992
Order No. R-2663

APPLICATION OF CONSOLIDATED OIL & GAS,
INC., FOR AN UNORTHODOX LOCATION, RIO
ARRIBA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
February 19, 1964, at Santa Fe, New Mexico, before Examiner
Elvis A. Utz.

NOW, on this 13th day of March, 1964, 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, Consolidated Oil & Gas, Inc., seeks
an exception to the Special Rules and Regulations for the Blanco-
Mesaverde Gas Pool to complete its Hoyt Well No. 3-5 at an
unorthodox location 1850 feet from the North line and 1130 feet
from the West line of Section 5, Township 26 North, Range 4 West,
NMPM, Rio Arriba County, New Mexico.

(3) That approval of the subject application should result
in recovery of otherwise unrecoverable gas as the applicant pro-
poses to dually complete the subject well in the Tapacito-Pictured
Cliffs Gas Pool and the Blanco-Mesaverde Gas Pool and the geologi-
cal conditions in the area will not justify a single completion
in the Blanco-Mesaverde Gas Pool.

(4) That approval of the application will prevent waste
and protect correlative rights.

-2-

CASE No. 2992
Order No. R-2663

IT IS THEREFORE ORDERED:

(1) That the applicant, Consolidated Oil & Gas, Inc., is hereby granted an exception to the well location requirements of the Special Rules and Regulations governing the Blanco-Mesaverde Gas Pool and is hereby authorized to complete its Hoyt Well No. 3-5 at an unorthodox location 1850 feet from the North line and 1130 feet from the West line of Section 5, Township 26 North, Range 4 West, NMPM, Rio Arriba County, New Mexico.

(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

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

S E A L

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

esr/

Examiner Hearing March 8, 1967

CASE 3536: Application of Tenneco Oil Company for two unorthodox gas well locations, San Juan and Rio Arriba Counties, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox Blanco-Mesaverde Gas Pool location of its Dawson Federal Well No. 1, located 835 feet from the North line and 1150 feet from the West line of Section 26, Township 27 North, Range 8 West, San Juan County, and its Jicarilla "C" Well No. 8, located 1850 feet from the North line and 790 feet from the West line of Section 13, Township 26 North, Range 5 West, Rio Arriba County, New Mexico.

CASE 3206 (Reopened)

In the matter of Case No. 3206 being reopened pursuant to the provisions of Order No. R-2874-A which continued the special rules and regulations for the High Plains-Pennsylvanian Pool, Lea County, New Mexico, for an additional year. All interested parties may appear and show cause why the pool should not be developed on 80-acre or 40-acre spacing units.

CASE 3537: Application of Texaco Inc. for a waterflood project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Bisti Lower-Gallup Oil Pool by the injection of water into the Lower Gallup formation through its Northeast Bisti Unit Well No. 3 located in Unit O of Section 15, Township 25 North, Range 11 West, San Juan County, New Mexico.

ir/

Tamias - unorthodox location
called in by Plumb on 2/16

unorthodox Mesaville location

1850' FNL Sec 13 26N 5W
790' FWL

Rio Arriba County

dedicate $\frac{1}{2}$ of Section

thought they were out of the MU
projected well as a Dakota test.

dearnley-meier reporting service inc.

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

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Page 1

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
March 8, 1967

EXAMINER HEARING

IN THE MATTER OF:

Application of Tenneco Oil Company)
for two unorthodox gas well)
locations, San Juan and Rio Arriba)
Counties, New Mexico.)

) Case No. 3536
)
)
)
)
)

BEFORE: DANIEL S. NUTTER, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: Call Case 3536.

MR. HATCH: Application of Tenneco Oil Company for two unorthodox gas well locations, San Juan and Rio Arriba Counties, New Mexico.

MR. KELLY: Booker Kelly, White, Gilbert, Koch and Kelly, on behalf of the Applicants. I have one witness and ask that he be sworn.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1 through 4 marked for identification.)

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

DIRECT EXAMINATION

BY MR. KELLY:

Q Would you state your name, position, and employer, please?

A My name is Jack Willock. I am Petroleum Engineer with Tenneco Oil Company in Durango, Colorado.

Q Have your qualifications as an expert Petroleum Engineer been made a matter of public record before this Commission?

A Yes, sir, they have.

Q Would you briefly state what Tenneco seeks by this

application?

A Tenneco seeks to gain Conservation Commission approval of two unorthodox well locations to produce the Mesaverde sand in the one well, Jicarilla "C" 8 Well in the northwest of Section 13, Township 36 North, 5 West, Rio Arriba, New Mexico. The other well is the Dawson Federal Well Number 1, Section 26, Township 27 North, Range 8 West, San Juan County, New Mexico.

Q Taking the Jicarilla Well first, would you refer to Exhibit 1 and locate the well on it and state to the Examiner what the orthodox location would have been?

A The "C" Number 8 Well, the Jicarilla "C" Number 8 Well is located in the northwest quarter of Section 13, for a standard location. It would need to be located in the northeast quarter of that.

Q What zone is that well completed in, and what is the present status?

A It's dually completed in the Dakota and the Mesaverde, Mesaverde sands, and there has been no production other than test production.

Q Is it on a standard location for the Dakota?

A Yes, sir, it is.

Q What zone was Tenneco after when they drilled this well?

A We were seeking a Dakota completion when we drilled

the well. It was our feeling that we should drill the well on the west half of Section 13, which would be a standard Dakota location. Since it was a dry hole in Section 18, in the east half of Section 18, Township 26 North, Range 4 West, we were trying to stay as far away as possible from that dry hole.

Accordingly, we intend to drill another well in the next two or three weeks, intend to start another well in the next two or three weeks in the southwest corner of Section 13, which will be, if we find Mesaverde productive, it will go to the Dakota but it will be a standard Mesaverde location down there.

Q Now, what led you to believe that the Mesaverde would not be productive?

A Well, we didn't think the Mesaverde would be economical when we drilled the "C" 14 Well and "C" 8 Well in Section 13. We had already completed the "C" 4 and 5 Wells in Section 24. The "C" 5 Well was never capable of producing.

MR. NUTTER: Mr. Willock, for convenience in following your testimony here, would you explain what the symbols on these wells mean?

A Yes, sir. The quadrant from 3:00 o'clock to 6:00 o'clock is completion in the Mesaverde; the quadrant from 9:00 o'clock to 12:00 o'clock is the completion in the Dakota.

Accordingly, the one from noon till 3:00 would be a Pictured Cliff and from 6:00 to 9:00 would be in the Gallup, if we'd had one. I think this is fairly standard among operators in that part of the country.

MR. NUTTER: So, your "C" Number 8 has from 9:00 to noon, which is Dakota and 3:00 to 6:00 which is Mesaverde, so that's the dual completion?

A Yes, sir. The "C" 5 Well, we attempted completion in the Mesaverde and it never has flowed, so we're going to have to abandon that well. The "C" 4 Well has absolute open flow of 2308 mcf per day, but it makes water and we don't think that's going to be an economical completion. So, both of these wells were drilled before the "C" 6 and the "C" 8, and we had no real hopes for Mesaverde completion when we drilled these two wells, the "C" 6 and "C" 8.

Q (By Mr. Kelly) You say the "C" 6 is also completed in the Mesaverde?

A That's correct.

Q Does that look like it's going to be a pretty good well?

A I think so. I think it will be a good Mesaverde completion. We don't have a State test completed on it yet.

MR. KELLY: Mr. Examiner, this came up in preparation for this case. Actually, we have an additional well that will

require a non-standard location approval, depending on the thoughts of the Commission. We could present testimony at this time on that well also, and republish, or if you would prefer, we would just come in on a separate application.

MR. NUTTER: I think it would be preferable to come in on a separate application.

MR. KELLY: All right.

Q (By Mr. Kelly) In other words, all of the adjoining production, or adjoining wells that have penetrated to the Mesaverde have not shown that the Mesaverde was not productive, is that correct?

A Well, not economical.

Q Yes.

A Right.

Q Who are the offset operators on the "C" 8 Well?

A The only offsets to the unit will be owned by Tenneco, Conoco and Atlantic Combine. Offset acreage to the north is owned by Southern Union and to the east by Southern Union, but there is no production established there.

Q Now, is this Well Number "C" 8 in an established Mesaverde field?

A It's in the extreme southeast part of the Basin and is not in the regular established field. By being off pattern, it won't interrupt any drainage patterns or anything like



that of other operators.

Q Is it fair to say that the reason that you didn't choose a pattern that would have been orthodox for both Dakota and Mesaverde is due to basically two factors, trying to stay as far away as possible from the dry hole in the Basin Dakota, and also because you really weren't considering Mesaverde due to your prior drilling history?

A That's correct.

Q Now, go on to what has been marked Exhibit 2 and explain that to the Examiner.

A Exhibit 2 is a log section showing gamma-ray and resistivity log of Jicarilla "C" 8 Well. You'll notice the long section from just below 5400, about 5440 or 50 down to 62, approximately 6250 is all Mesaverde sand. The uppermost portion is good sand, that's the Cliff House Section, and a very small interval in the Point Lookout, just above 6100 feet. The reason I entered this exhibit was to show you this isn't a large productive section here, and as such, we couldn't expect a real good Mesaverde well when we started drilling the Jicarilla "C" Number 8.

Q Have you previously received permission by administrative approval to dual complete these wells?

A Yes, sir.

MR. KELLY: We have a diagrammatic sketch, if you wish,

Mr. Examiner.

MR. NUTTER: No, that's not part of this case.

Q (By Mr. Kelly) How would you rate your completion in the Mesaverde in this well?

A I would say it's good. We haven't completed our test but we think our absolute open flow will be in the neighborhood of 4300 mcf per day.

Q How much did it cost to dually complete?

A In the neighborhood, or approximately \$25,000.00.

Q How about a single completion?

A A single well drilled to the Mesaverde in this area would cost approximately \$60,000.00.

Q Based on the information you have now, could you recommend to your company, if this application were to be denied, a single completion be made?

A I don't think so. We need more history from the two wells that have been drilled that look decent. The others in the area haven't been good, the one that we attempted to produce in the past.

Q Would there be any question in your mind about recommending, if you hadn't gotten this test in the Mesaverde, about drilling a Mesaverde well in this area?

A There would be no doubt that we would drill a Mesaverde well.

Q Let's go on to Exhibit Number 3, which is the location of the other well, Dawson Federal Number 1. Would you locate that on Exhibit 3 and state what the orthodox location would be?

A The Dawson Federal Number 1 is located in the northwest quarter of Section 26, Township 27 North, Range 8 West. An orthodox location would be one in the southwest quarter of Section 26, rather than northwest.

Q Who are your offset operators in this well?

A Offset operators on all sides with production from the Mesaverde sand is R and G Drilling. I might state at this time that Great Lakes has evidently been bought out by R and G Drilling Company to the north. Production to the east and to the south.

Q And your symbols in this Exhibit are the same as Exhibit 1?

A Yes, sir, the symbols indicating here completion, are the same as previously presented in other exhibits.

Q In your opinion, what wells, if any, would be possibly affected by your unorthodox location?

A Only the one to the north, R and G Morrow Number 46 would be the only one. I might state here that the Morrow R and G Myron Number 42 in the southwest of 22 has produced 392,000,000 cubic feet and has deliverability of 385 mcf a day.

The R and G Drilling Number 46 in the southwest of Section 23 has produced 82,000,000 and is now shut-in. The R and G Drilling Hammond 43 in the northeast of 26 has produced 330,000,000, has a deliverability of 136 mcf per day, and the R and G Drilling Number 47 Well in the southwest of Section 35 has a cumulative of 99,000,000 and deliverability of 66 mcf a day.

These wells have been producing since the late 50's, that is a period of six to eight years, and according to our cost to drill, it would require approximately six hundred million to pay out drilling a Mesaverde well. By our standards, all of these wells have been uneconomical so far.

Q None of them paid out yet, have they?

A I don't think so.

Q So, actually your spacing -- The well that your spacing location might be crowding is presently shut-in, can't produce?

A That's right.

Q How about the present status of Tenneco's Dawson Well?

A It is completed in the Dawson Sand and Mesaverde Sand.

Q Is it producing through either sand?

A No, it's shut-in.

Q Based on your testimony, would you say that the history

of the Mesaverde in this area, is also pretty poor?

A I would say it's very poor, yes.

Q Now, in this case, could you have picked a location that would have been orthodox even if you had been going for Mesaverde, that would have been orthodox for both zones?

A It would have been extremely difficult to do. We sent the surveyor out to spot our location in the southwest quarter and he called us and told us that he thought the terrain looked too rough to him, so we moved the location from orthodox because of terrain and we go from the bottom part of Largo Canyon up on top of the mesa right there on that.

MR. KELLY: Let's mark this as Exhibit 5.

(Whereupon, Applicant's Exhibit 5 marked for identification.)

Q (By Mr. Kelly) Why don't you go over and locate that?

A This is a topographic map and prepared by the USGS; here is the location of our well, down in the canyon, and these are forty foot contours up in here. We would have to come up in here for a standard location at the southwest quarter.

MR. NUTTER: There is a Well Number 6 in the southwest quarter?

A Yes, sir, there is. The road going up there is very

narrow and it's a shallow well, and the location was not near large enough for us to put another well on.

Q (By Mr. Kelly) How would you get to that well if you were to use that location?

A There's a possibility we could come up on top and go on around and gotten in the very south edge of it, but that again would be expensive, hauling and transportation, moving the rig in and out, and moving water for use on the well.

Q Is it your testimony that it was Tenneco's intention, when this well was spudded in, to go for the Dakota?

A Yes, sir.

Q Referring to what is marked Exhibit Number 4, would you discuss that?

A Exhibit Number 4 is a log section showing gamma-ray and resistivity logs of the entire Mesaverde Section, beginning with the Cliff House Section up at the top, just approximately 3720 feet, continuing down to the Mancos shale at 4600. This again, is a 900 foot section of sand with only the portion of the Point Lookout productive. It again indicates that we don't have long productive intervals out there. We weren't expecting big sand depth.

Q What kind of well do you think this application well will be in both zones?

A I think we will have a good well. We haven't tested

the Dakota yet but it flowed pretty good, and the Dawson Federal had a deliverability of approximately 3400 mcf per day in the Mesaverde Sand.

Q Would you be able to recommend to your company that this Mesaverde Zone be completed singly if the application were to be denied?

A You mean to drill another well?

Q Yes.

A Again, I think we need performance before we could actually justify the drilling of a well. Our potential was good out here, but the other wells that have been completed for an extended period of time haven't been good.

Q Are your cost estimates about \$60,000.00, the same for this well?

A Yes.

Q Would the difficult location cause, assuming a single new drilling, would it cause the price to go up considerably?

A Yes, it would, sure would.

Q Can you state what the standard practice of operators in the San Juan Basin, as far as going for Dakota completion is, is it standard to test the Mesaverde on the way down?

A Well, you go through the Mesaverde. You have to drill through the Mesaverde section before you get to the Dakota and if it looks good, certainly consider testing it after the

Dakota is completed.

Q In your opinion, would the granting of this application have any adverse affect on other operators' correlative rights?

A I don't think so.

Q Do you feel that the granting of this application will tend to prevent waste by insuring that gas otherwise left in place will be produced?

A Yes, sir.

Q Were Exhibits 1 through 4 prepared by you or under your supervision?

A Yes, sir.

MR. KELLY: Exhibit 5 is the topographic map. I move the introduction of Exhibits 1 through 5.

MR. NUTTER: Tenneco's Exhibits 1 through 5 will be admitted in evidence.

(Whereupon, Applicant's Exhibits 1 through 5 offered and admitted in evidence.)

MR. KELLY: That's all we have on direct.

MR. NUTTER: Any questions of Mr. Willock?

Mr. Willock, I have no questions to ask you; however, I would like to make this statement for the record in this case. I believe that the Mesaverde Pool, as a whole, has been developed on a uniform pattern with the wells prescribed to be in the northeast quarter and the south~~east~~^{west}. The pattern

has been followed almost completely uniformly in the development of the pool, which has an excess of a thousand wells.

For a company to start a program of projecting wells to the Dakota formation and asking for completion of a well in the Mesaverde, when it is off pattern, is a dangerous practice, particularly as to the uniformity in two respects; in the first place, the Commission might deny such an application and in the second place, I think any offset operator has full rights to come in and ask ^{that the allowable} for a well so drilled to be reduced. There is no question in either of these particular cases but I would like to point out to Tenneco this danger.

Are there any questions of Mr. Willock? He may be excused.

(Witness excused.)

MR. NUTTER: Do you have anything further?

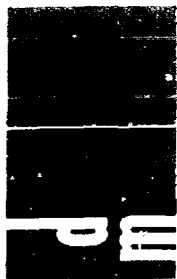
MR. KELLY: No, I don't.

MR. NUTTER: Does anyone have anything they wish to offer in Case 3536? We will take the case under advisement.

dearnley-meier reporting service, inc.

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

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PAGE

16

I N D E X

WITNESS	PAGE
JACK WILLOCK	
Direct Examination by Mr. Kelly	2

E X H I B I T S

NUMBER	MARKED FOR IDENTIFICATION	OFFERED	ADMITTED
App. Ex. 1-4	2	14	14
5	11	14	14

dearnley-meier reporting service, inc.

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

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PAGE

17

STATE OF NEW MEXICO)
) SS
COUNTY OF BERNALILLO)

I, ADA DEARNLEY, 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; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

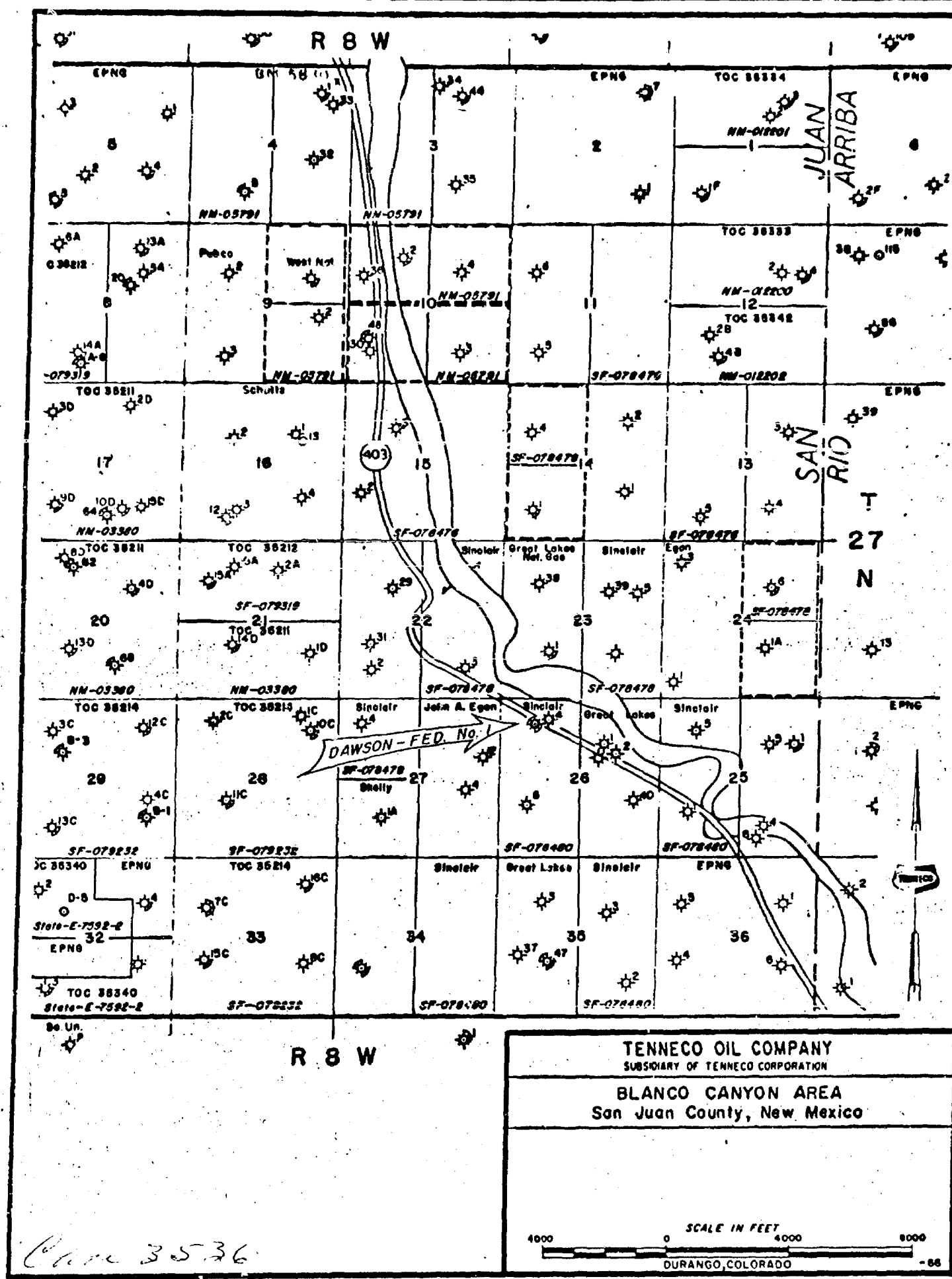
Witness my Hand and Seal this 10th day of March, 1967.

Ada Dearnley
NOTARY PUBLIC

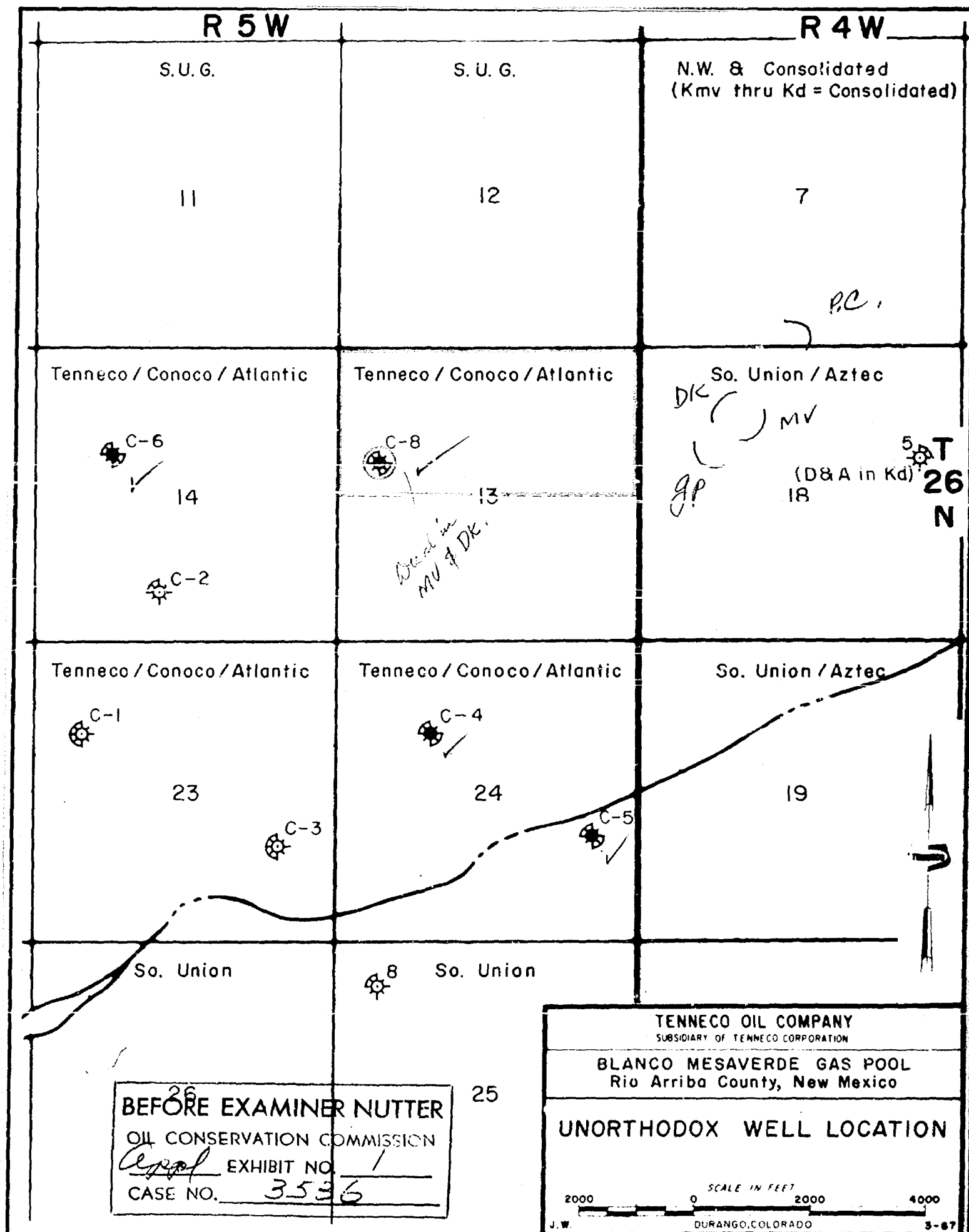
My Commission Expires

June 19, 1967

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of case No. 3536
Heard by me on 3/8, 1967.
Abraham, Examiner
New Mexico Oil Conservation Commission



Case 3536



TENNECO OIL COMPANY

JICARILLA C-8

Sec. 13 T 26 N - R 5 W

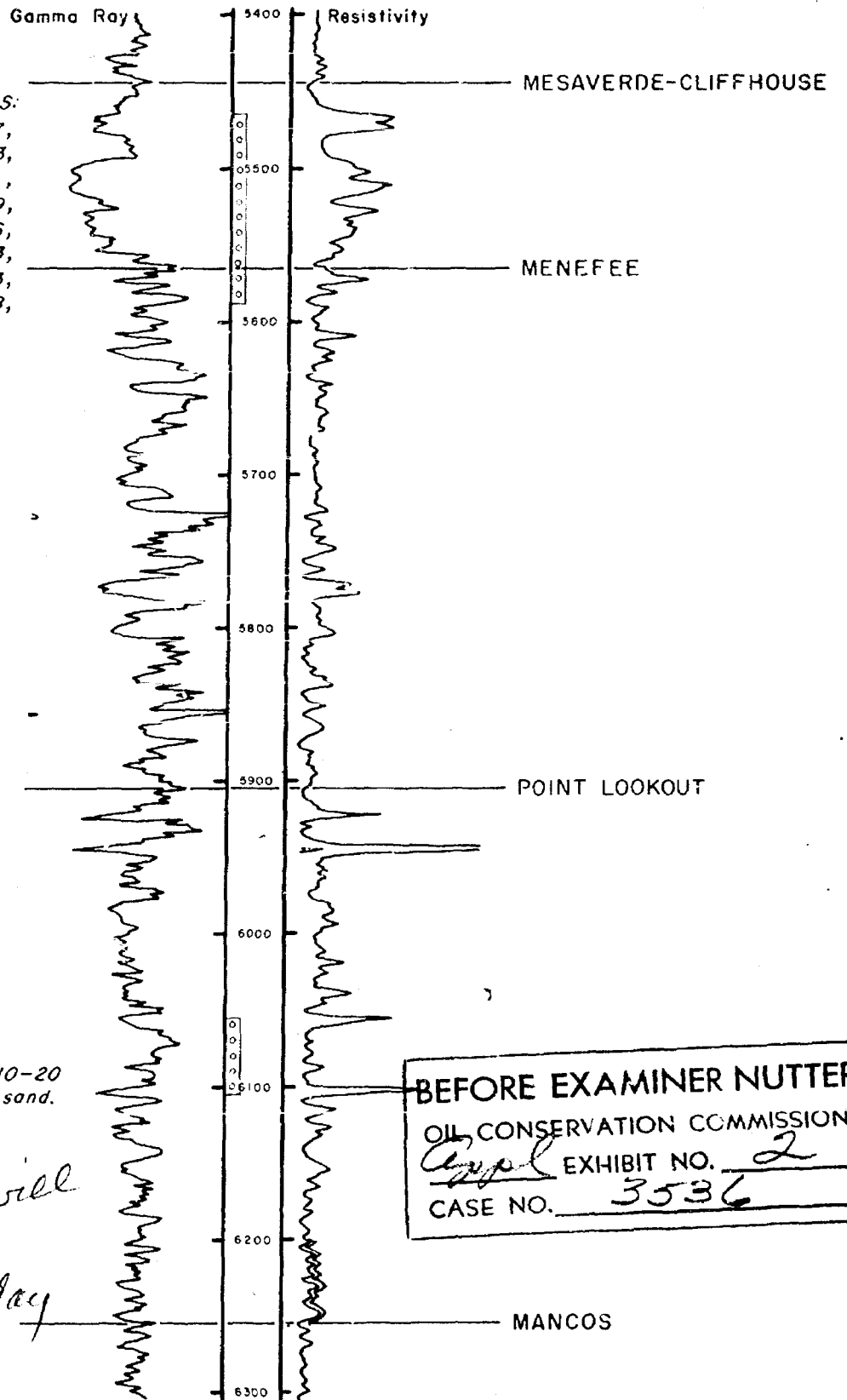
Rio Arriba County, New Mexico

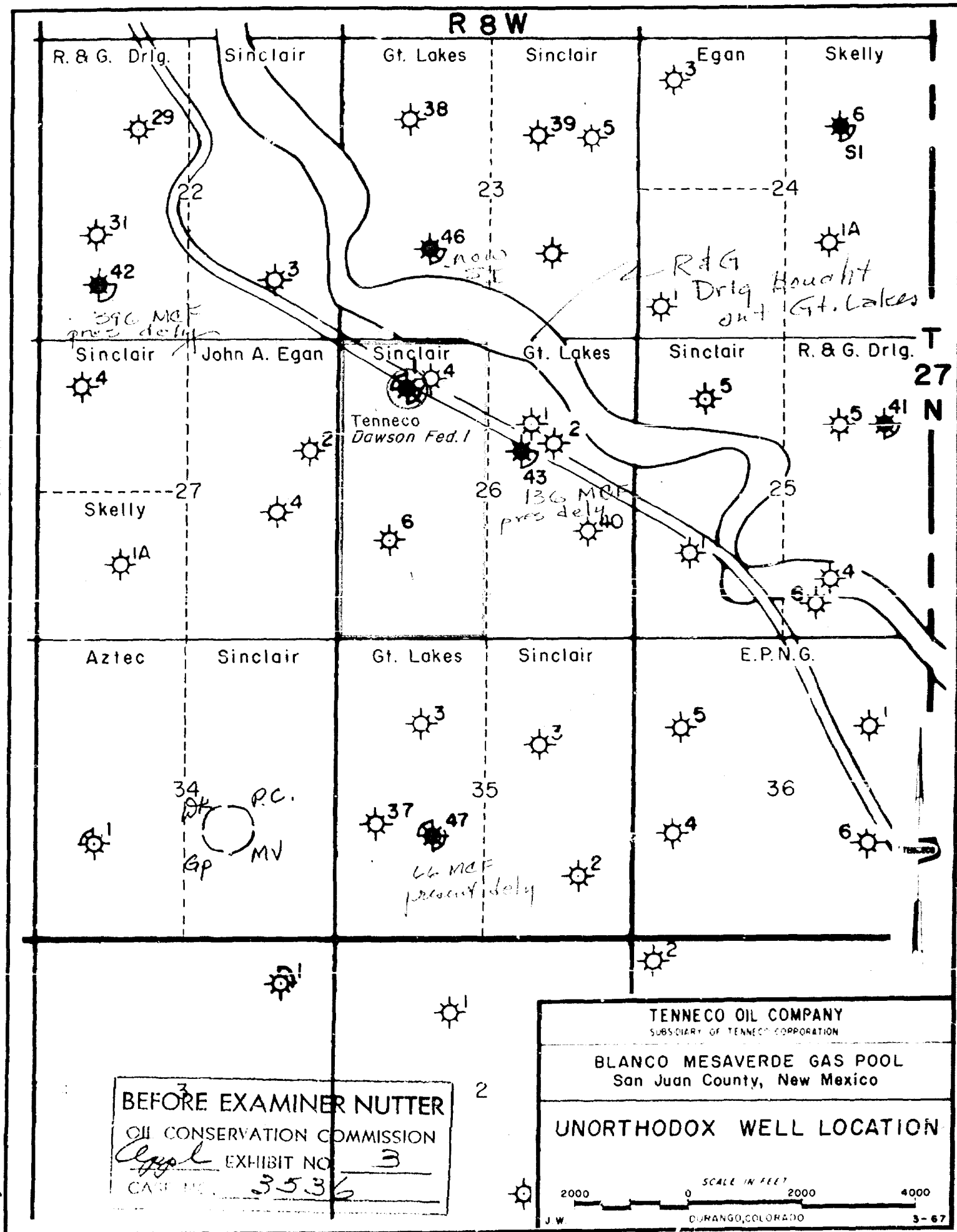
MESAVERDE PERFS:

5465, 5466, 5467,
5471, 5472, 5473,
5474, 5500, 5501,
5502, 5503, 5509,
5512, 5514, 5516,
5527, 5529, 5533,
5534, 5538, 5543,
5583, 5585, 5588,

6055, 6103.
Frac'd w/50,000 # 10-20
and 20,000 # 8-12 sand.

*estimate well will
test approx.
1300 MCF/day*





TENNECO OIL COMPANY

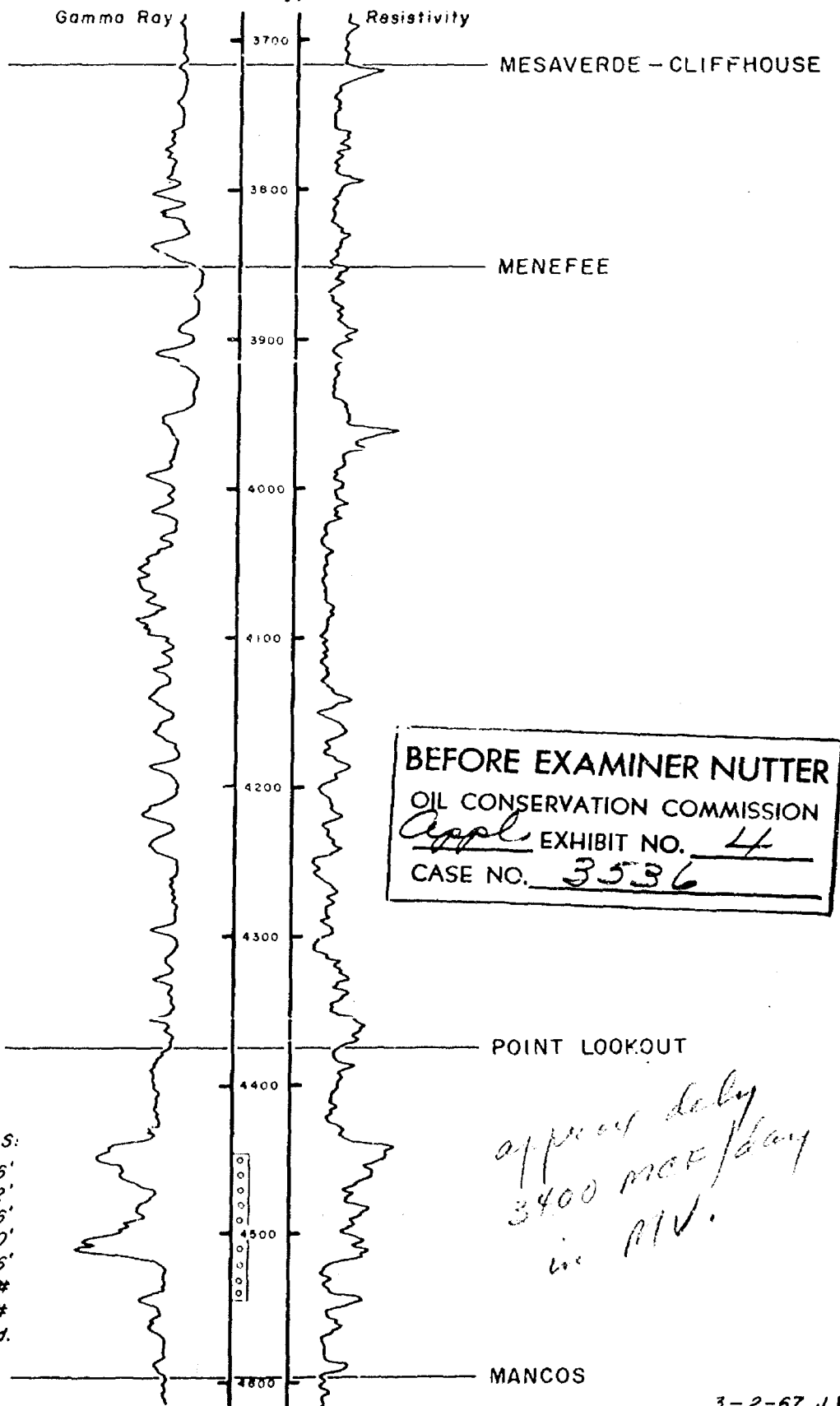
DAWSON FEDERAL I

Sec. 26 T 27 N - R 8 W

San Juan County, New Mexico

Gamma Ray

Resistivity



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Appl. EXHIBIT NO. 4
CASE NO. 3536

MESAVERDE SAND PERFS:

4446' - 4456'
4480' - 4482'
4492' - 4496'
4502' - 4510'
4542' - 4546'
Frac'd. w/ 50,000#
10-20 @ 20,000#
8-12 sd.

*approx daily
3400 MCF/day
in PIV.*