CASE 2693: Application of MWJ PROD.
CO. for unorthodox oil well location,
(Medicine Rock-Devonian Pool)

etion, Transcript,

11 Exhibits, Etc.

GOVERNOR EDWIN L. MECHEM CHAIRMAN

State of New Wexico Oil Conservation Commission

LAND COMMISSIONER E. S. JOHNNY WALKER MEMBER



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

P. O. BOX 871 SANTA FE

December 19, 1962

Mr. Richard S. Morris Re: Seth, Montgomery, Federici & Andrews Attorneys at Law Post Office Box 828 Santa Fe, New Mexico

Case No. 2693
Order No. R-2391
Applicant:

MMJ Producing Company

Dear Sire

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

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Astec 0	cc				
OTHER_	Mr.	R.	X.	Anderson -	Sinclair
*.	Mr.	W.	P.	Tomlinson .	- Atlantic
	Mr.	Boo	ke	Kelly - T	exago

ODVERNÖR JACK M. CAMPBELL CHAIRMAN

State of New Mexico

Bil Conservation Commission

LAND COMMISSIONER E. B. JOHNNY WALKER MEMBER



P. D. BOX 871 BANTA FE STATE GECLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

January 23, 1963

Mr. Bradley H. Keyes Geolectric, Inc. Aztec, New Mexico

Dear Brad:

Reference is made to our letter of December 17, 1962, with which we enclosed a Page 6 (revised) of Order No. R-333-F entered by the Commission on November 30, 1962. A slight typographical error required that Page 6 be done over.

We asked that you insert the revised Page 6 in your copy of the order and return the former Page 6 to us.

Please make the above-referenced substitution and return the old Page 6 to us.

Very truly yours,

DANIEL S. NUTTER Chief Engineer

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BULLBRICK JACK M. CAMPBELL CHAIRMAN

MAIN OFFICE OCC.

State of New Mexico

1933 FEB 4 M Bil Conserbation Commission

LAND COMMISSIONER E. B. JOHNNY WALKER MEMBER



P. O. BOX 871 SANTA FE

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

January 23, 1963

Mr. Emery C. Arnold District Supervisor Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico

Dear Emery:

Reference is made to our letter of December 17, 1962, with which we enclosed a Page 6 (revised) of Order No. R-333-F entered by the Commission on November 30, 1962. A slight typographical error required that Page 6 be done over.

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Very truly yours,

DANIEL S. NUTTER Chief Engineer

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE. NEW MEXICO

December 17, 1962

Mr. Bmery C. Arnold District Supervisor Oil Conservation Commission 1800 Rio Brases Road Astes, New Mexico

Dear Recry:

Enclosed herewith is Page 6 (revised) of Order No. R-333-F entered by the Commission on November 30, 1962, a copy of which has previously been mailed to you.

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Very truly yours,

DAMIEL S. MUTTER Chief Engineer

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE. NEW MEXICO

December 17, 1962

Mr. Bradley H. Keyes Geolectric, Inc. Astec, New Mexico

Dear Brad:

Anchosed herewith is Page 6 (revised) of Order No. R-333-F entered by the Commission on November 30, 1963, a copy of which has previously been mailed to you.

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Very truly yours,

DAKIEL S. MUTTER Chief Engineer

DEM/eer Enclosure

PAN AMERICAN PETROLEUM CORPORATION

OIL AND GAS BUILDING

FORT WORTH, TEXAS

December 28, 1962

Mr. Daniel S. Nutter, Chief Engineer Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

III) I . M 1 27

Dear Dan:

Reference is made to your letter dated December 17, 1962, which transmitted a revised Page 6 of Order No. R-333-F, entered by the Commission November 30, 1962.

We have made a diligent search of our files and have been unable to locate a copy of this order. Also I personally do not recall receiving it. Therefore, I am returning the revised Page 6.

May I wish you and your family a very happy new year.

Very truly yours,

Guy T. Buell

GTB:rh Attachment CASE No. 2695 Order No. R-333-F

Section 2: Annual Deliverability and Shut-In Pressure Test Procedure

This test shall be taken by producing a well into the pipeline through either the casing or tubing, but not both. The production valve and choke settings shall not be changed during either the conditioning or flow periods except during the first seven days of the conditioning period when maximum production would over-range the meter chart or the location production. equipment. The daily flowing rate shall be determined from an average of seven consecutive producing days, following a minimum conditioning period of 14 consecutive days production. The first seven days of said conditioning period shall have not more than one interruption, which interruption shall be no more than 36 continuous hours in duration. The eighth to fourteenth days, inclusive, of said conditioning period shall have no interruptions whatsoever. All production during the 14-day conditioning period plus the 7-day deliverability test period shall be at static wellhead working pressures not in excess of 75 percent of the previous annual 7-day shut-in pressure of the well if such previous annual shut-in pressure information is available; otherwise, the 7-day initial deliverability shut-in pressure of the well shall be used.

In the event that the existing line pressure does not permit a drawdown as specified above with the well producing unrestrictedly into the pipeline, the operator shall request an exception to this requirement on Form C-122-A. The request shall state the reasons for the necessity for the exception.

Instantaneous pressures shall be measured by deadweight gauge during the 7-day flow period at the casinghead, tubinghead, and orifice meter, and shall be recorded along with instantaneous meter-chart static pressure reading.

When it is necessary to restrict the flow of gas between the wellhead and orifice meter, the ratio of the downstream pressure to the upstream pressure shall be determined. When this ratio is 0.57, or less, critical flow conditions shall be considered to exist across the restriction.

When more than one restriction between the wellhead and orifice meter causes the pressures to reflect critical flow between the wellhead and orifice meter, the pressures across each of these restrictions shall be measured to determine whether critical flow exists at any restriction. When critical flow does not exist at any restriction, the pressures taken to disprove critical flow shall be reported to the Commission on Form C-122-A in the "Remarks" section of the form. When critical flow conditions exist, the instantaneous flowing pressures required hereinabeve shall be measured during the last 48 hours of the 7-day flow period.

OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE. NEW MEXICO

December 17, 1962

Mr. Guy Reell Pan American Petroleum Corporation P. O. Box 1410 Fost Worth, Toxas

Dear Guy:

Reclosed herewith is Page 6 (revised) of Order No. R-333-F entered by the Commission Hovember 30, 1962, a copy of which has previously been smiled to year.

A slight typographical error required that Page 6 be done over. Please insert this copy in the order which you received and return the former Page 6 to us.

Very truly yours,

DANIEL S. MUTTER Chief Engineer

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE. NEW MEXICO

December 17, 1962

Mr. R. W. Byram R. W. Byram & Company Drawer M - Capitol Station Austin, Texas

Dear Mr. Byram:

Enclosed herewith is Page 6 (revised) of Order No. N-333-F entered by the Commission on Movember 30, 1962, a copy of which has previously been mailed to you.

A slight typographical error required that Page 6 be done over. Please insert this copy in the order which you received and return the former Page 6 to us.

Very truly yours.

DANIEL S. MUTTER Chief Engineer

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R. W. BYRAM & COMPANY

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PHONE GReenwood 8-2551 DRAWER M, CAPITOL STATION

Consulting Geologists • Petroleum Engineers Specialized Oil & Gas Reports on Texas, New Mexico and Louisiana

AUSTIN, TEXAS

December 31, 1962

Mr. Daniel S. Nutter Chief Engineer Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Nutter:

Enclosed is the first copy of page six of order No. R-333-F for which you sent us a replacement. It is returned as per your request. It arrived in the nick of time as we had sent the copy to the printer for inclusion in our December supplement.

I want to thank you again for all of your courtesies and assistance when I was in Santa Fe for the December 6 hearing. It is always nice to visit with all of you.

I do hope that 1963 will be a most happy one for all of you.

Sincerely,

Serta Vore

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE. NEW MEXICO

December 17, 1962

Mr. Ray Bynum Southern Union Gas Company 1500 Fidelity Union Tower Dellas, Towns

Dear Mr. Bynum:

Enclosed herewith is Page 6 (revised) of Order No. R-333-F entered by the Commission on Movember 30, 1962, a copy of which has previously been mailed to you.

A slight typographical error required that Page 6 be done over. Please insert this copy in the order which you received and return the former Page 6 to us.

Very truly yours,

DANIEL S. MUTTER Chief Engineer

Dem/eer Inclosure



January 4, 1963

Mr. Daniel S. Nutter, Chief Engineer New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Mr. Nutter:

We acknowledge receipt of page 6 (revised) of order No. R-333-F forwarded with your letter of December 17 to replace the earlier page 6 furnished with copy of the order of November 30, 1962.

The superceded page 6 is herewith returned to you, as requested.

Yours very truly,

J. R. Bynum

Manager

Gas Contracts and Prorations

Bynner

Enclosure

JRB:pam

GOVERNOR JACK M. CAMPBELL CHAIRMAN State of New Mexico

Dil Conservation Commission

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LAND COMMISSIONER E. S. JOHNNY WALKER MEMBER



SANTA FE

STATE GEOLOGIST - ANDREASTER, JR. SECRETARY - DIRECTOR

January 23, 1963

Mr. Norman Woodruff El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas

Dear Norman:

Reference is made to our letter of December 17, 1962, with which we enclosed a Page 6 (revised) of Order No. R-333-F entered by the Commission on November 30, 1962. A slight typographical error required that Page 6 be done over.

We asked that you insert the revised Page 6 in your copy of the order and return the former Page 6

Please make the above-referenced substitution and return the old Page 6 to us.

Very truly yours,

DANIEL S. NUTTER Chief Engineer

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OIL CONSERVATION COMMISSION P. O. BOX 871 SANTA FE. NEW MEXICO

December 17, 1962

Mr. Morman Woodruff El Paso Matural Gas Company P. O. Box 1492 El Paso, Toxas

Dear Morman:

Er-siel

Reclosed herewith is Page 6 (revised) of Order No. R-333-F entered by the Commission on Movember 30, 1962, a copy of which has previously been smiled to you.

A slight typographical error required that Page 6 he done over. Please insert this copy in the order which you received and return the former Page 6 to us.

Very truly yours,

DANIEL S. MUTTER Chief Engineer

Dem/eer Enclosure

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE No. 2693 Order No. R-2391

APPLICATION OF MNJ PRODUCING COMPANY FOR AN UNORTHODOX LOCATION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 5 clock a.m. on Movember 8, 1962, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Newico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 19th day of December, 1962, the Commission, a quarum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Mutter, 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, MMJ Producing Company, seeks approval of an unorthodox oil well location 330 feet from the South line and 330 feet from the West line of Section 14, Township 15 South, Range 38 East, MMPM, Medicine Rock-Devomian Pool, Lea County, New Mexico, as an exception to Order No. R-2315 establishing Special Rules and Regulations for the Medicine Rock-Devomian Pool and requiring all wells projected to or completed in the Medicine Rock-Devomian Pool to be located within 150 feet of the center of either quarter-quarter section in an 80-acre provation unit.
- (3) That the evidence establishes that approval of the subject application would impair the correlative rights of pifset operators.
 - (4) That the application should be denied.

-2-CASE No. 2693 Order No. R-2391

IT IS THEREFORE ORDERED:

- (1) That the subject application is hereby denied.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

> STATE OF NEW MEXICO OIL COMSERVATION COMMISSION

TON ROLLICE, Chairman

E. S. WALKER, Homber

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

REPORTING SERVICE,

BEFORE THE OIL CONSERVATION COMMISSION Santa Fe, New Mexico November 8, 1962

EXAMINER HEARING

IN THE MATTER OF:

Application of MWJ Producing Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox oil well location 330 feet from the South and West lines of Section 14, Township 15 South, Range 38 East, Medicine Rock-Devonian Pool, Lea County, New Mexico, in exception to Rule 3, Order R-2315, Medicine Rock-Devonian Pool Rules.

) Case 2693

BEFORE: Daniel S. Nutter.

TRANSCRIPT OF HEARING

MR. NUTTER: We will call next Case 2693.

MR. DURRETT: Application of MWJ Producing Company for an unorthodox location, Lea County, New Mexico.

MR. NUTTER: I want to correct the docket, it should be MWJ instead of NWJ.

MR. MORRIS: If the Examiner please, I am Richard Morris of Seth, Montgomery, Federici and Andrews, Santa Fe, New Mexico, appearing on behalf of the applicant. We will have one witness, Mr. Williams. I'll ask that he be sworn at this time. May I ask that the Examiner call for appearances at this time,



please.

(Witness sworn.)

MR. NUTTER: Are there any other appearances in Case 2693?

MR. ANDERSON: Sinclair Oil and Gas, R. M. Anderson. We will have a closing statement.

MR. TOMLINSON: Atlantic Refining, W. P. Tomlinson. We will have a statement.

MR. KELLY: Booker Kelly, Gilbert, White and Gilbert appearing for Texaco, Inc.

MR. NUTTER: Proceed, Mr. Morris.

R. KEN WILLIAMS

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

DIRECT EXAMINATION

BY MR. MORRIS:

Mr. Williams, will you please state your name, where you reside and what your relationship is to the applicant in this case?

My name is R. Ken Williams. I'm Vice President of MWJ Producing Company, Midland, Texas.

Have you testified previously before the New Mexico Oil Conservation Commission, Mr. Williams?



FARMINGTON, N. M. PHONE 325-1182 REPORTING SERVICE, DEARNLEY-MEIER

No. I haven't.

Would you briefly state for the record your education Q and your experience in the oil business?

I have an engineering degree from Texas A & M College. A I am a registered professional engineer in the State of Texas and for the past eleven years I have been Vice President of MWJ Producing Company, which is a company engaged in the active development and operation of oil properties in the Permian Basin area. including Southeastern New Mexico.

Mr. Williams, are you thoroughly familiar with the application of MWJ Producing Company in this Case 2693?

Yes, I am.

MR. MORRIS: Mr. Examiner, may the witness testify as an expert?

MR. NUTTER: Yes, sir, please proceed.

Mr. Williams, have you prepared an ownership plat of the Medicine Rock-Devonian Pool in Lea County, New Mexico?

We have.

MR. MORRIS: I ask that be marked as Applicant's Exhibit 1.

> (Whereupon, Applicant's Exhibit No. 1 was marked for identification.)

Referring to what has been marked as Exhibit No. 1, Q



BANTA FE, N. M. PHONE 983-3971

FARMINGTON, N. M. PHONE 325-1182

Mr. Williams, will you please state what is shown?

This is a shot off of our lease map showing the ownership and the wells in the Medicine Rock-Devonian Pool. Our Lee Carter lease, which is 80 acres in the South Half of the Southwest Quarter of Section 14, Township 15, Range 38 East, is outlined in red and our proposed location 320 feet from the South and West lines of Section 14 is marked and colored in red.

How is your proposed location of the Lee Carter Well No. l an unorthodox location in this pool?

This location is unorthodox in that it is not within 150 feet of the center of a Quarter Quarter Section as required by Rule 3 of Order No. R-2315.

That Order No. R-2315 is the order establishing special rules and regulations in this pool?

That's right.

Would you state to the Examiner the background of this application?

In mid August our company and our associates began considering the prospect of drilling a well in the Medicine Rock-Devonian Pool. On September the 18th, 1962 we mailed to the Hobbs District Office a form C-101, Notice of Intention to Drill for the proposed location. On September 20 the application was returned to us from the Hobbs Office because of some administrative



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difficulties with plugging bond requirements.

Shortly thereafter we learned informally that there had been some field rules, special field rules established for this field and that even though our bond difficulties were resolved at the time, that it would be useless for us to resubmit a new C-101 at the proposed location.

- What was the date of those special field rules for this pool?
 - The field rules were dated September 18.
- And they required the location of the well within 150 feet of the center of the Quarter Quarter Section?
 - That is right.
- At the time your original 101 was filed, Mr. Williams, Q did you have any actual knowledge of the rules and regulations requiring this 150 foot location?
 - No, sir, we did not.
- Did you have any actual knowledge that a hearing had Q been held to establish special rules in this pool?
 - No, sir, we didn't.
- After the C-101 was returned to you, at that time you learned that a hearing would be necessary to consider your proposed location for this well?
 - Yes, sir.

Q At the time you first considered drilling a well in this pool you said that was mid August of this year, were there any wells completed in this pool as close as 330 feet to a Quarter Quarter Section or lease line?

- A Yes, sir, there were two wells.
- Q Would you point out those wells on Exhibit No. 1, please?
- A The Jake Hammond Roberts No. 1 located in the Southwest Quarter, Northwest Quarter of Section 23 is located 330 feet from the West line of Section 23. The Tri Service Drilling Company Johnson No. 1, located in the Northwest Quarter, Southwest Quarter of Section 14 is located 330 feet from its lease lines.
- Q And the location that you are asking for is 330 feet from your lease line and Quarter Quarter Section?
 - A Yes, sir, that's correct.
- Q First let me ask you if you have prepared a structure map of this pool?
 - A Yes, sir, we have.

MR. MORRIS: I will ask that be marked as Exhibit No. 2.

(Whereupon, Applicant's Exhibit No. 2 was marked for identification.)

Q Would you explain to the Examiner what is shown on this Exhibit No. 2, please?

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Exhibit 2 is a contour map on ten foot contour inter-A vals drawn on the top of the Devonian formation within the Medicine Rock Field. You'll see that in the Northeast Quarter of Section 22 there is a high which blends into a nose trending to the Northeast. We have also drawn on this contour map a line designating the oil-water contact at minus 9090.

- Is the subject well located on this map circled in red?
- Yes, sir, we've located our well on our lease in red.
- Q You've pointed out that on this exhibit an oil-water contact of minus 9090, would you explain to the Examiner what information you have that made you conclude that that was the correct oil-water contact in this Northeast Section of the field?

Yes, sir, we've drawn the oil-water contact only around the Northeast part of the field since that is the area that we're concerned with, and we have prepared a tabulation which I would like to explain that I think would clarify the location of the oil-water contact.

MR. MORRIS: I will ask that that tabulation be marked as Exhibit No. 3.

> (Whereupon, Applicant's Exhibit No. 3 was marked for identification.)

- Q Would you summarize the information shown on Exhibit 3?
- Exhibit 3 is a tabulation which we have prepared of

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selected test data according to the information we had available that I think will explain our pick of minus 9090 as the oilwater contact in this northeast area.

You'll notice on the Exhibit 3 I have in the middle set of columns subsea intervals which various wells had either drill stem or cased hole test run. Taking them in order, the Atlantic Graham well, the first one showed water-free drill stem test as low as minus 9076. The Atlantic Corbin well, which is still in the process of completion, we understand on drill stem test recovered a substantial amount of oil with some salt water in an interval from minus 9080, minus 9092. The Tri Service Drilling Company well showed a water-free drill stem test as low as minus 1900. The Argo well showed water-free drill stem test as low as minus 9026, and a subsequent cased hole test reported some oil and some water as low as minus 9108.

The Hammon well reported water-free drill stem test as low as minus 9070, and finally was completed as low as minus 9082, flowing 160 barrels of oil with five barrels of water per day.

It's our conclusion, based on the information we have from the test data available, that the oil-water contact in the northeast area is at least as low as minus 9090.

In giving that test data, Mr. Williams, you referred to the Argo well in Section 14. Now, that's shown as a dry hole on



our Exhibit No. 2. Did you say that some oil was recovered on drill stem test of that well?

Yes, sir. The test information we had was that the Argo well on a drill stem test as low as minus 1926 recovered some oil and no appreciable amount of free water, and evidently Argo at the time thought enough of it that they ran casing on it and took a subsequent cased hole test and the cased hole test through perforations between the 9086 and 9108 subsea in eleven hours recovered nine and a half barrels of fluid which was reported 50% salt water and the other 50% reported as including

From your conclusions with respect to the oil-water contact at minus 9090 and the drill stem test data and the other data that you have just given, what is your opinion with respect to where oil will be found, above what level oil will be found in this pool?

We believe that there will be some oil above minus 9090 in the northeast portion of the field.

Turning our attention to the MWJ tract, 80-acre tract in question, what is your opinion with respect to the productivity of that 80-acre tract?

Well, as you see, the indicated oil-water contact is outside of our 80-acre tract and we feel that the entire 80 acres



will be productive.

Moving on this 80-acre tract, moving from the east to the west and the south of the tract, you gain structure moving in that direction, is that right?

Yes, sir. The contour map indicates that.

Where on that tract would be the best location to make a good well?

Well, we'd like to put it on the section corner, but we realize that might be a little unfair and we accordingly believe that a location 330 feet from the south and west lines of the section would be a location at which we could get the best possible producer and at the same time protect the correlative rights of all interested parties.

Do you believe that MWJ Drilling Company would be justified in drilling a well at a location further than 330 feet from the south and west lines of the section?

No, sir, we wouldn't, even though our entire 80 acres, we believe, is productive, we feel that we can get a good producer only at a location 330 feet from the south and west lines.

If no well should be drilled on this 80-acre tract, what would happen to the oil under this tract?

Well, our feeling is that if no well was drilled on the 80-acre tract, that there would necessarily be some oil left



unrecovered. For this reason it is our understanding that the Tri Service well to the north of our proposed location, as well as the Hammond well to the south, are both small, let's say limited capacity producers, and although both of these wells in all probability will recover the oil under their own 80 acres, it's hard for us to believe that they might also recover the oil under our 80 acres. If such is the case there would be a certain amount of oil left unrecovered in the reservoir.

- Those two wells being limited producers would reach their economic limit before they would be able to drain the oil from under your 80-acre tract?
 - In all probability.
- Q If oil were left unrecovered under your tract, then it's axiomatic that some waste of that oil would occur?
 - A Yes, sir.
- Were Exhibits 1, 2 and 3 prepared by you or under your direction, Mr. Williams?
 - Yes, sir, they were.

MR. MORRIS: We offer 1 through 3, Mr. Examiner.

MR. NUTTER: Applicant's Exhibits 1 through 3 will be received in evidence.

> (Whereupon, Applicant's Exhibits 1, 2 and 3 were admitted in evidence.)



FARMINGTON, N. M. PHONE 325-1182

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That's all I have on direct examination. MR. MORRIS:

MR. NUTTER: Anyone have any questions of Mr. Williams? Mr. Kelly.

CROSS EXAMINATION

BY MR. KELLY:

- Mr. Williams, you stated that you would prefer drilling Q this well on the section corner, is that right?
 - Yes, sir, I stated that.
- I believe you also said that you wouldn't do that because it would be unfair. Could you explain what you mean by that?
- Well, we realize that it would be unrealistic for us to expect a location closer than 330 feet.
- Isn't it true that it would be unfair in that it would Q definitely affect correlative rights of operators on contiguous sections if you drilled on the quarter section?
 - No, sir, I don't agree with that.
 - You don't? In what way would it be unfair?
 - I don't quite understand your question, I'm sorry.
- Well, you stated that it would be unfair if you drilled right on the section corner.
 - Yes, sir. A
 - But it would not be unfair if you drilled where your Q



BANTA FE. N. M. PHONE 983-3971

proposed location is?

- A That's right.
- Q I'm trying to find out why you feel it would be unfair to drill on the quarter corner.
 - A Well, we'd be crowding the lease line too close.
- Q And there would be a good chance you would be taking oil from a lease that you didn't have any interest on?
 - A I'd say that's a possibility.
- Q Now, you also stated that you felt that all 80 acres were productive on your lease?
 - A Yes, sir.
- Q But you feel that this particular position is the only place you can drill and officially drain all the 80 acres, is that correct?
- A This is the only location that we feel like we can drill and get a good producer.
- Q Did you receive any type of rotice on the original hearing to set up these rules?
 - A No, sir.
- Q You received the same notice that all other operators in the proposed field did, though, didn't you?
 - A I don't recall any specific notice of any kind.

 MR. KELLY: Could we have the Examiner take



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administrative notice of the type of notice that was given in this case?

The Commission will take notice. MR. NUTTER:

MR. KELLY: That's all.

MR. NUTTER: Any further questions?

MR. MORRIS: Just one question, Mr. Examiner.

MR. NUTTER: Mr. Morris.

REDIRECT EXAMINATION

BY MR. MORRIS:

Mr. Williams, are you on the mailing list for information, on the general mailing list for information from the Commission?

Yes, sir, I believe we are.

Did you take any actual notice or did you have any actual knowledge of these of the hearing to establish special rules in this Medicine Rock-Devonian Pool?

Not until after our application had been returned.

MR. MORRIS: I believe that's all I have.

RECROSS EXAMINATION

BY MR. NUTTER:

Using your contour map, Mr. Williams, I spot your well at approximately a minus 9,002, would that be about correct?

Yes, sir, that's from the indicated contour it would be A



SERVICE, DEARNLEY-MEIER REPORTING

approximately that.

Then if we went to the center of any 40, which would be a 660 location, and draw a circle with a radius of 150 feet approximately, where would that circle fall on the contour map, the southwest side of the circle if a circle has a side?

Well, without drawing, without actually drawing it, it looks like it would come at about a minus 9010.

About a minus 9010. And the water-oil contact is a minus 9090, so that would leave you with 80 feet above the wateroil contact, wouldn't it?

Yes, sir.

At a location 150 feet from the center of the circle?

Yes, sir.

Do you know what the average pay interval in this pool runs in thickness? What the average perforated interval is?

It has varied. I probably have it in my files. I know that some wells have perforated as little as 10 to 12 feet, and it's my understanding, I believe that most all the wells have not perforated a very large interval.

What part of the Devonian are they perforating, or an average of how far below the tops that you have contoured here, or are these points that you have fixed Devonian pay?

The top of the Devonian formation, and not necessarily A



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pay.

Where are the perforations, then, in relation to the top Q of the Devonian formation as depicted here?

They vary from well to well, of course, and if memory A serves me I believe the Sinclair wells in general were perforated fairly low in the section.

Your Exhibit 3 doesn't have the perforated intervals on any of the wells, does it?

No. sir. I think I didn't include that data on Exhibit 3.

MR. NUTTER: I believe that's all, thank you, Mr. Williams. Any further questions?

MR. DURRETT: Yes, sir, I would like to ask one question.

MR. NUTTER: Mr. Durrett.

BY MR. DURRETT:

Q I would like to get straightened up on these dates. * What day did you file your notice of intention?

- It was mailed on September 18. A
- What day did you finally get your bond approved? Q
- Well, when there was some administrative problems between us and our associates that we never did get a bond approved because shortly after we got the application returned

FARMINGTON, N. M. PHONE 325-1182

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because of the bond problems we learned about the necessity of requiring a hearing for the location, so we just put off getting a bond until such time as we needed it.

MR. DURRETT: I believe that's all I have, thank you.

MR. NUTTER: Any further questions?

MR. KELLY: I would like to ask that the exhibits presented by Sinclair in the original Case 2625 be made a part of this hearing. I think they show the perforations and some of the data that the Examiner was requesting.

MR. MORRIS: If the Examiner please, we were not parties to the case just referred to by Mr. Kelly and had no opportunity to cross examine the witnesses that presented those exhibits and we would object to their being considered by the Examiner in this case.

MR. KELLY: I don't think that the applicant can object when they had the notice required by statute and chose not to appear. Certainly there is no requirement of actual notice on one of the members of the firm. It's the notice as required by statute.

MR. NUTTER: We'll sustain the objection. We will take administrative notice of our well files as relate to this pool, however. Do you have anything further, Mr. Morris?

MR. MORRIS: No, sir. I would like to make a statement

SANTA FE, N. M. PHONE 983-3971

SUGUERQUE, N. M.

at the close of the other statements.

MR. NUTTER: The witness may be excused.

(Witness excused.)

MR. NUTTER: Does anyone have anything they wish to offer in Case 2693?

MR. KELLY: I would like to make a statement on behalf of Texaco. Texaco, though not an operator in this pool, does have a working interest in Sinclair's five wells and a royalty interest in the Atlantic well. Texaco feels that the application should be denied and for the reasons stated as follows:

The applicant failed to appear at the original hearing and this hearing was held a very short time when these rules were worked out. We feel that the spacing rules give adequate flexibility to all operators in the field. We feel the evidence shows that there is no need as far as geological evidence for an exception in this rule and that the only reason, the only actual reason proposed by the applicant is that they would be closer to the center of the pool and could drain areas which they have no interest in.

We also feel that their correlative rights would definitely be affected, which was in fact admitted by the witness, and that there is absolutely no showing as required by statute that the granting of this application would be in the best interest of



FARMINGTON, N. A. PHONE 325-118

SANTA FE, N. M.

prevention of waste.

Therefore, we respectfully submit that the application should be denied.

MR. ANDERSON: R. M. Anderson with Sinclair Oil and Gas Company. Sinclair is a historic advocate of flexible spacing and we have recommended the present rules which were adopted and which we consider flexible. We are opposed to 330-foot locations in 80-acre fields. We oppose this application for that reason. We feel that the applicant has failed to show the need for exception to the existing field rules. We feel that if this application is approved and if a successful well is completed at the unorthodox location, that if the additional information gained by the drilling of that well substantiates Sinclair's present interpretation as presented at the field rules hearing recently on August 29, then Sinclair contemplates that they will call a productive acreage hearing for the purpose of determining a proper allowable for this well.

MR. TOMLINSON: Atlantic opposes this. L. Phil Tomlinson for Atlantic. We oppose this application. We supported the original rules in September. We thought they were flexible enough to permit orderly development. Any exceptions to those rules should be based on hardship rather than a need to gain structure. We drilled one well since then and it was drilled



DEARNLEY-MEIER REPORTING SERVICE, Inc.

within the provisions of the rules. We think that other people should be required to do the same.

MR. DURRETT: Mr. Examiner, I have a letter in the file that the Commission has received. I would like to read that into the record at this time. "Gentlemen, we have been advised that MWJ Producing Company has made application for permission to drill a well 330 feet from the south and west lines, Section 14, Township 19 South, Range 38 East, Lea County, New Mexico, in the Medicine Rock-Devonian Pool. Since such a location is not in accordance with the field rules which have been adopted for the Medicine Rock-Devonian Pool, we respectfully request that the application be denied." This letter is signed Jake L. Hammond by A. C. Elliott.

MR. MORRIS: I think I should make a statement in support of our application, Mr. Examiner.

MR. NUTTER: Would you do that, Mr. Morris?

MR. MORRIS: It's been shown by the only evidence brought out at this hearing that a 330 location, as applied for, is needed before MWJ will feel justified to drill a well at all on this 80-acre tract. This, in spite of the fact that the evidence also shows that the entire 80 acres is productive. Respectfully suggest to the Examiner that if a well is not drilled on this 80-acre tract, that waste will result by oil

CE, Inc.

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REPORTING SERVICE, DEARNLEY-MEIER being left in the ground and unproduced.

There is, I might say, no likelihood of any other wells being drilled in the northeast corner of this pool other than the well under consideration here today, because all of the acreage in that northeast corner is dedicated to existing wells. The evidence adduced here today shows that the prevention of waste can be accomplished and at the same time that the correlative rights of all the operators can be adequately protected by a location 330 feet from the south and west lines of this section.

Respectfully request that the application of MWJ Producing Company be approved.

MR. NUTTER: Does anyone have anything further at all they wish to offer in Case 2693? We will take the case under advisement.

ALBUQUEROUE, N. M. PHONE 243-6691 STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

I, ADA DEARNLEY, 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 4th day of December, 1962.

Notary Public-Court Reporter

My commission expires:
June 19, 1963.

I do hereby earliev that the feregoing Is a complete it.

the Discourse it. 2693
heard by it.

Lex Rexico Oil Conservation Commission



BEFORE THE OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF M W J PRODUCING COMPANY FOR AN UNORTHODOX LOCATION IN THE SLSW14, SECTION 14, TOWNSHIP 15 SOUTH, RANGE 38 EAST, MEDICINE ROCKDEVONIAN OIL POOL, LEA COUNTY, NEW MEXICO.

No. 2673

APPLICATION

Comes now M W J Producing Company and applies to the Oil Conservation Commission of New Mexico for approval of a well, to be located 330 feet from the South line, and 330 feet from the West line of Section 14, Township 15, South, Range 38 East, N.M.P.M., Lea County, New Mexico, said well to be dedicated to applicant's Lee Carter Lease, composed of the S\2SW\2 of said Section 14.

The proposed well will be located within the horizontal limits, and projected to the vertical limits of the Medicine Rock-Devonian Oil Pool, and the location requested is in exception to Rule 3 of the pool rules as stated in Order No. R-2315.

Attached hereto is a plat showing, insofar as known to the applicant, the subject lease, proposed well location, and offsetting lease ownership in the vicinity of the proposed well.

Applicant requests that this matter be set for hearing before the Commission or its duly appointed examiner, and after notice and hearing as provided by law, the Commission enter its order approving the well location as prayed for in this application.

Respectfully submitted,

M W J PRODUCING COMPANY

KELLAHIN & FOX P. O. Box 1713

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Santa Fe, New Mexico

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ATTORNEYS FOR APPLICANT

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KELLAHIN AND FOX
ATTORNEYS AT LAW
54V2 EAST SAN FRANCISCO STREET
POST OFFICE BOX 1713
SANTA FE. NEW MEXICO

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October 19, 1962

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

Gentlemen:

Enclosed find application of MWJ Producing Company in triplicate for filing. This application is for an unorthodox location in the S½SW¼, Section 14, Township 15 South, Range 38 East, Medicine Road-Devonian Oil Pool, Lea County.

Please advise when this application has been set for hearing.

Very truly yours,

Jason W. Kellahi

JASON W. KELLAHIN

jwk:mas enclosures

DOCKET MAILED

Date 0/26/67

DOCKET: EXAMINER HEARING - THURSDAY - NOVEMBER 8, 1962

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, alternate examiner:

CASE 2682:

Application of Pan American Petroleum Corporation for the creation of a new pool and the establishment of special rules and regulations, San Juan County, New Mexico.

Applicant, in the above-styled cause, seeks the creation of a new oil pool to be designated the Simpson-Gallup Oil Pool comprising the S/2 of Section 23, SW/4 of Section 24, N/2 of Section 25, and the NE/4 of Section 26, Township 28 North, Range 12 West, San Juan County, New Mexico. Applicant further seeks the establishment of special pool rules including the provisions for 80-acre proration units.

CASE 2683:

Application of Curtis R. Inman for approval of a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Carnero Peak Unit Area comprising 12,151 acres, more or less, of State, Federal and Fee lands in Townships 22 and 23 South, Ranges 24 and 25 East, Eddy County, New Mexico.

CASE 2684:

Application of Gulf Oil Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its H. T. Mattern (NCT-A) Well No. 3, located in Unit P of Section 24, Township 21 South, Range 36 East, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the Paddock, Blinebry, and Drinkard Oil Pools through parallel strings of tubing.

CASE 2685:

Application of Gulf Oil Corporation for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its Graham State (NCT-I) Well No. 2 located in Unit L of Section 19, Township 21 South, Range 37 East, Lea County, New Mexico, as a triple completion (conventional) to produce oil from the Paddock, Blinebry, and Drinkard Oil Pools through parallel strings of tubing.

CASE 2686:

Application of Marathon Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State Hansen Well No. 5, located in Unit H of Section 16, Township 20 South, Range 37 East, Lea County, New Mexico, as a dual completion

CASE 2686 (Cont.)

(conventional), to produce oil from the Weir-Blinebry and Monument-Tubb Pools through parallel strings of 1.41 ID and 2-inch ID tubing.

CASE 2687:

Application of Shell Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its Emerald Unit Well No. 1 located in Unit C of Section 23, Township 16 South, Range 32 East, Lea County, New Mexico as a dual completion (Conventional) to produce oil from the Penrose and Wolfcamp formations through parallel strings of tubing.

CASE 2688:

Application of Socony Mobil Oil Company for a quadruple Completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State Bridges Well No. 95 located in Unit P of Section 26, Township 17 South, Range 34 East, Lea County, New Mexico, as a quadruple completion (conventional) to produce oil from the Abo, Wolfcamp, Pennsylvanian and Devonian formations through parallel strings of tubing.

CASE 2689:

Application of Socony Mobil Oil Company for a dual completion and certain administrative procedures, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State Bridges Well No. 27-DD located in Unit H of Section 26, Township 17 South, Range 34 East, Lea County, New Mexico as a dual completion (conventional) to produce oil from the Vacuum (San Andres) Pool and an undesignated Yeso pool through parallel strings of 2 3/8 inch and 2 3/8 x 1 1/4 inch tapered tubing strings. Applicant further seeks the establishment of administrative procedures whereby similar dual completions could be approved in this area.

CASE 2690:

Application of Phillips Petroleum Company for a special allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order authorizing the assignment of a special allowable to its Mexco "A" Well No. 2, located in Unit I of Section 2, Township 17 South, Range 32 East, Maljamar Pool, Lea County, New Mexico. Said well offsets and has received a response from Boller and Nichols Water-flood project in said Section 2.

Docket No. 32-62

CASE 2691:

Application of El Paso Natural Gas Company for the creation of a new gas pool and establishment of special rules and regulations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new gas pool for the Morrow formation underlying Sections 18, 19, 20, and 29, Township 19 South, Range 32 East, Lea County, New Mexico. Applicant further seeks establishment of special pool rules including provisions for 640-acre proration units and the allocation of allowables to non-marginal wells in the proportion that each well's acreage factor bears to the total of the acreage factors for all non-marginal wells in the pool.

CASE 2692:

Application of Amerada Petroleum Corporation for an exception to a Commission shut-in order, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 15 (A) Order R-1670, Southeast New Mexico Gas Proration Rules and Regulations, to permit its Shell-Amerada State "A" Unit Well No. 1 located in Unit P, Section 33, Township 11 South, Range 33 East, Bagley-Lower Pennsylvanian Gas Pool, Lea County, New Mexico, to produce a minimum of 2000 MCF per month in exception to an overproduction shut-in notice.

CASE 2693:

Application of NWJ Producing Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox oil well location 330 feet from the South and West lines of Section 14, Township 15 South, Range 38 East, Medicine Rock-Devonian Pool, Lea County, New Mexico, in exception to Rule 3, Order R-2315, Medicine Rock-Devonian Pool Rules.

CASE 2694:

Application of Southern Union Production Company for an amendment to the Northwest New Mexico Gas Proration Rules and Regulations. Applicant, in the above-styled cause, seeks an amendment to Order R-1670 as amended by Order No. R-2086, Rules and Regulations for Prorated Gas Pools, San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico, to permit wells ordered shut-in for extended periods to make up accumulated overproduction to produce a minimum of 500 MCF each month during such shut-in.

CASE 2695:

In the matter of the hearing called on the motion of the Oil Conservation Commission to consider revising Commission Orders R-333-C & D and R-333-E as the same relate to the season for taking Northwest New Mexico gas well deliverability tests and to the procedure for taking and calculating such tests, San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico.

-4-Docket No. 32-62

CASE 2670: (Cont)

Application of Elwyn C. Hale for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the quadruple completion (combination) of his Hale State Well No. 3, located in Unit H of Section 2, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Devonian, McKee, Waddell and Ellenburger Pools, North Justis Field, through two strings of 2 7/8 inch casing and two strings of 3 1/2 inch casing all cemented in a common well bore.

DWC

JAKE L. HAMON DIL PRODUCER 511 MIDLAND BAVINGS & LOAN BUILDING MIDLAND, TEXAS

November 1, 1962

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

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

RE: Case 2693, Docket No. 32-62.

Gentlemen:

We have been advised that the MWJ Producing Company has made application for permission to drill a well 330 feet from the South and West lines, Section 14, T-19-S, R-38-E, Lea County, New Mexico, in the Medicine Rock (Devonian) Pool.

Since such a location is not in accordance with the field rules which have been adopted for the Medicine Rock (Devonian) Pool, we respectfully request that the application be denied.

Yours very truly,

Jake L. Hamon
By ACE elect

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. 2625 Order No. R-2315

APPLICATION OF SINCLAIR OIL & GAS COMPANY FOR AN ORDER ESTABLISHING SPECIAL RULES AND REGULATIONS FOR THE MEDICINE ROCK-DEVONIAN 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 August 29, 1962, 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 18th day of September, 1962, 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, Sinclair Oil & Gas Company, seeks the promulgation of special rules and regulations for the Medicine Rock-Devonian Pool, Lea County, New Mexico, including a provision for 80-acre oil proration units.
- (3) That the evidence presented at the hearing of this case establishes that the Medicine Rock-Devonian Pool can be efficiently and economically drained and developed on 80-acre proration units, and that such development will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

That Special Rules and Regulations for the Medicine Rock-Devonian Pool are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE MEDICINE ROCK-DEVONIAN POOL

- RULE 1. Each well completed or recompleted in the Medicine Rock-Devonian Pool or in the Devonian formation within one mile of the Medicine Rock-Devonian Pool, and not nearer to or within the limits of another designated Devonian oil pool, shall be spaced, drilled, operated, and prorated in accordance with the Special Rules and Regulations hereinafter set forth.
- RULE 2. Each well completed or recompleted in the Medicine Rock-Devonian Pool shall be located on a unit containing approximately 80 acres, which consists of any two contiguous quarter-quarter sections of a single governmental quarter section. For purposes of these Rules, a unit consisting of between 79 and 81 surface contiguous acres shall be considered a standard unit.
- RULE 3. Each well projected to or completed in the Medicine Rock-Devonian Pool shall be located within 150 feet of the center of either quarter-quarter section in the 80-acre unit; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the 80-acre unit.
- RULE 4. For good cause shown, the Secretary-Director may grant an exception to Rule 2 without notice and hearing where an application has been filed in due form, and where the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Lands Survey, or where the following facts exist and the following provisions are complied with:
- (1) The non-standard unit consists of a single quarter-quarter section or lot.
- (2) The non-standard unit consists of not more than 81 acres.
- (3) The entire non-standard unit may reasonably be presumed to be productive of oil from said pool.
- (4) The applicant presents written consent in the form of waivers from all offset operators.
- (5) In lieu of Paragraph 4 of this Rule, the applicant may furnish proof of the fact that all of the offset operators were notified of his intent to form such non-standard unit. The Secretary-Director may approve the application if, after a period of 30 days, no such operator has entered an objection to the formation of the non-standard unit.

-3-CASE No. 2625 -Order No. R-2315

RULE 5. An 80-acre proration unit (79 through 81 acres) in the Medicine Rock-Devonian Pool shall be assigned an 80-acre proportional factor of 7.75 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from said wells in any proportion.

IT IS FURTHER ORDERED:

That the allowable provisions of this order shall become effective October 1, 1962. Further, that all operators who propose to dedicate 80 acres to a well in the Medicine Rock-Devonian Pool must file an amended Commission Form C-128 with the Hobbs District Office of the Commission by September 27, 1962.

IT IS FURTHER ORDERED:

That any well drilled or drilling in accordance with Statewide Rule 104 on the date of entry of this order which is located in exception to the above-described well location requirements is hereby granted an exception to said requirements.

IT IS FURTHER ORDERED:

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.

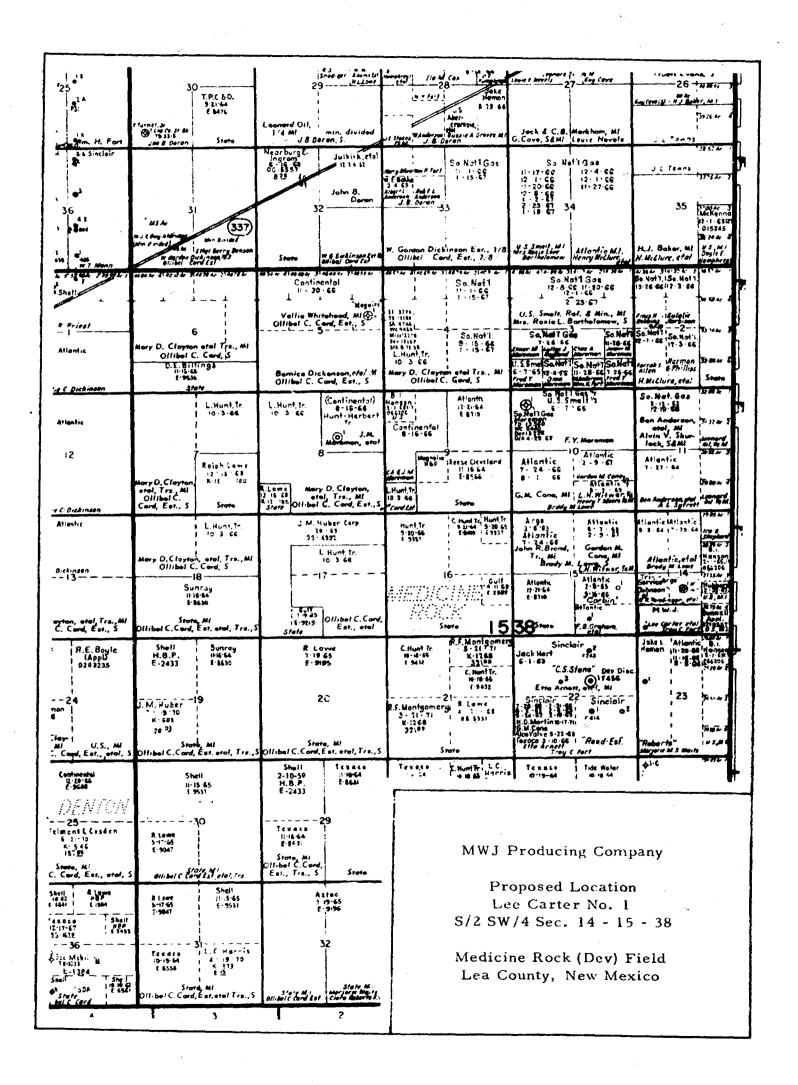
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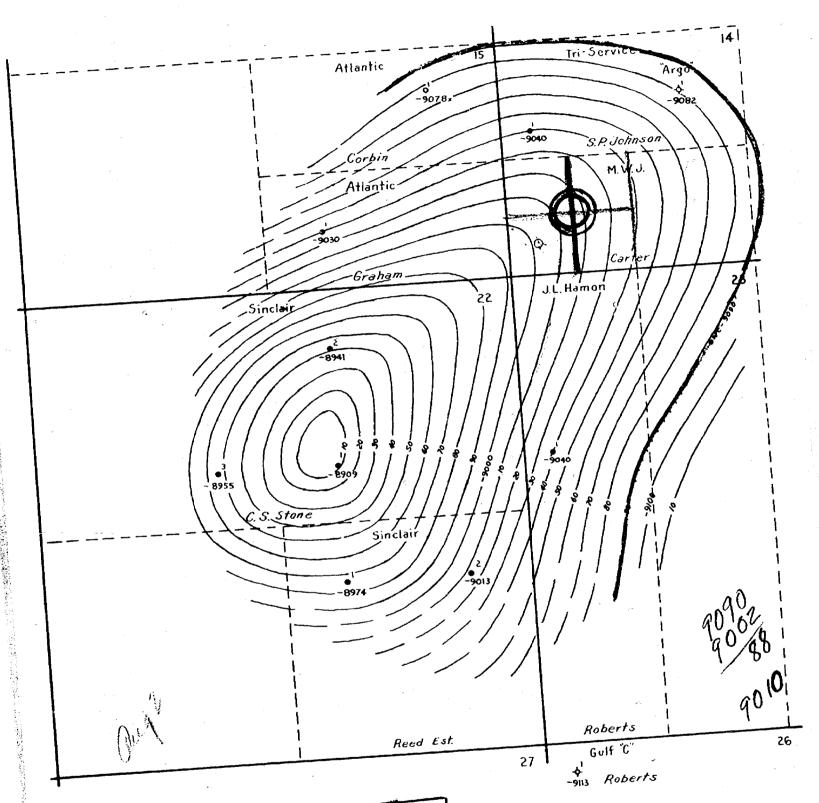
EDWIN L. MECHEM, Chairman

E. S. WALKER, Member

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

SEAL





BEFORE EXAMINER NUTTER ON CONSERVATION COMMISSION

Contour Map MEDICINE ROCK FIELD Lea County, New Mexico Datum: Top Devonian Interval: 10'

Scale: 1" = 10001

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GTS 1 + 20m; Rec 2400' (92Bbl) fluid 50 70 XW 5070 not reported except as including some	117 447	-9108 - 114 45m	-9086	Cased hole test	Casi			-
35'011 + 2495 '04GCWB + 720' SO4 HGCWB	1 6	-9126-	-9094	3740 DF -9082	37400	₹	Tomlinson	Args
GTS 24 SSm; res 190' oil + 150' HotGCM	34 103	-9100	-9060	3740 DF -9040	37400	N 0. 1	07557	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3100' 011 + 500' XW		-9092	-9080	3742 DF -9078	37420	No. 1	Corbin	Adlantic
Flu to pits 5m; reversed out full string oil; Rec 178' HOLGEM below tool	1 6	-9076	-9025	3756 KB -9030	3756 K	No. 1	Örana 3	
Recovery	Time Open	Test interval Tracopen	Test 1	Elevetion Top Den (Subsec)	Elevetion	Well	7 6020	Sporator

