CASE 2134: Application of NEARBURG & INGRAM for a dual completion, to commingle and for automatic custody transfer system.

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PROPOSED DONE COMPLETION NEARBURG & INGRAM No. 1 Midhurst

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Les County, New Mexico





SERVICE PIPE LINE COMPANY

Lovington, New Mexico November 18, 1960

RECEIVED NOV 2 1 1960

Subject: Proposed LACT Midhurst Lease Southeast Gladiola Pool

Mr. Tom L. Ingram Nearburg and Ingram Postoffice Box 847 Roswell, New Mexico

FORM 248 (2-55)

Dear Mr. Ingram:

We have checked your plans for the subject LACT and wish to advise you that the Service Pipe Line Company is agreeable to receiving oil with this type automatic custody transfer installation.

It will be necessary to install the back pressure valve ahead of the prover tank connection so the meter can be proved at operating pressure. The prover tank should be piped so the charge pump can empty the tank and not discharge through the meter.

Please advise this office at your earliest convenience the scheduled date for installing this LACT.

If we can be of any further assistance, please feel free to call on us.

Yours very truly,

cc: Charles E. Wilson J. D. Behling

BEFORE EXAMINER NUTTER OIL CONSERVATION COMMISSION EXHIBIT NO. 6 2134-NO

LAW OFFICES OF CAMPBELLIG RUSSELL J. P. WHITE BUILDING ROSWELL, NEW MEXICO COLOBER 27, 1960

TELEPHONES MAIN 2-4641 MAIN 2-4642

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Oil Conservation Commission Box 871 Santa Fe, New Mexico

Gentlemen:

JACK N CAMPBELL

JOHN F. RUSSELL

Enclosed please find three copies of an Application on behalf of Nearburg & Ingram.

440 Million Market Market

Very truly yours, Jack M. Campbell For CAMPBELL & RUSSELL

JMC:np

Enclosures

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NO. 35-60

DOCKET: EXAMINER HEARING, WEDNESDAY, NOVEMBER 30, 1960

Oil Conservation Commission - 9 a.m., STATE LAND OFFICE BUILDING, Santa Fe, N.M.

The following cases will be heard before Daniel S. Nutter, Examiner, or Oliver E. Payne, attorney, as alternate examiner:

CASE 2125: Application of El Paso Natural Gas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Lusk Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of tubing.

CASE 2126:

Application of Tidal Oil Company for an unorthodox gas well location. Applicant. in the above-styled cause, seeks approval of an unorthodox gas well location in an undesignated Pictured Cliffs pool at a point 1150 feet from the South line and 2040 feet from the West line of Section 21, Township 24 North, Range l West, Rio Arriba County, New Mexico.

CASE 2127:

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools and for an automatic custody transfer system. Applicant, in the abovestyled cause, seeks permission to commingle the production from the Dean Devonian and Dean Permo-Pennsylvanian Pools from all wells presently completed or hereafter drilled on its State Lea 396 Lease consisting of the NE/4, S/2 NW/4, and N/2 SW/4 of Section 35, Township 15 South, Range 36 East, Lea County, New Mexico, after separately metering only the production from the Dean Permo-Pennsylvanian Pool. Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production.

CASE 2128:

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools and for an automatic custody transfer system. Applicant, in the abovestyled cause, seeks permission to commingle the production from the Denton-Devonian and Denton-Wolfcamp Pools from all wells presently completed or hereafter drilled on its T. D. Pope Lease, consisting of the W/2 of Section 36, Township 14 South, Range 37 East, Lea County, New Mexico after separately metering only the Denton-Wolfcamp production. Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production. Docket No. 35-60

CASE 2129:

-2-

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools from two separate leases and for an automatic custody transfer system Applicant, in the above-styled cause, seeks permission to commingle, after separate measurement, the production from the Denton-Devonian and Denton-Wolfcamp Pools from all wells presently completed or hereafter drilled on the following-described leases:

> Whitman "A" Lease, NE/4 of Section 26 Whitman "B" Lease, E/2 of Section 23,

both in Township 14 South, Range 37 East, Lea County, New Mexico, and for permission to install an automatic custody transfer system to handle said commingled production.

CASE 2130:

Application of Redfern and Herd, Inc., for an order force-pooling a standard 320-acre gas proration unit in the Basin-Dakota Pool. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Dakota Producing Interval in the W/2 of Section 29, Township 29 North, Range 11 West, Basin-Dakota Pool, San Juan County, New Mexico. The following are among the interested parties:

Aztec Oil & Gas Company, Summit Oil Company, Ruth Schrecht, Edwin A. Schrecht, Ella Blaise, and Sam Carson.

CASE 2131:

Application of Robinson Brothers Oil Producers for the creation of a new gas pool and for the promulgation of special rules and regulations therefor. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Pennsylvanian production consisting of the N/2 of Section 22, Township 11 South, Range 31 East, Chaves County, New Mexico. Applicant further seeks the promulgation of special rules and regulations governing said pool including a provision for 320-acre gas provation units.

CASE 2132:

Application of Humble Oil & Refining Company for permission to commingle the production from several pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the following pools underlying the State "V" Lease consisting of the SW/4, W/2 SE/4, and NE/4 SE/4 of Section 10, Township 21 South, Range 37 East, Lea County, New Mexico: Blinebry Oil Pool, Brunson Pool, Drinkard Pool, Hare Pool, Tubb Oil Pool, Wantz Abo Pool, Blinebry Gas Pool and Tubb Gas Pool, with allocation to the various pools being based on monthly well tests except that separate metering and separation facilities would be used for oil well and gas well completions. Docket No. 35-60

CASE 2133:

-3-

Application of Humble Oil & Refining Company for an automatic custody transfer system and for an exception to Rule 309 (a). Applicant, in the above-styled cause, seeks permission to install an automatic custody transfer system to handle the Gallup production from an undesignated Gallup pool from all wells presently completed or hereafter drilled on its Navajo "L" Lease consisting of all or portions of Sections 25, 26, 35 and 36; Township 29 North, Range 14 West, San Juan County, New Mexico.

CASE 2134:

Application of Nearburg & Ingram for a dual completion, for permission to commingle the production from two separate pools, and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Midhurst Well No. 1, located in the NW/4 NW/4 of Section 35, Township 12 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Pennsylvanian Pool and the production of oil from the Southwest Gladiola-Devonian Pool through parallel strings of tubing. Applicant further seeks permission to commingle the production from said two common sources of supply from all wells on its Midhurst Lease consisting of the NW/4 of said Section 35 and for permission to install an automatic ' custody transfer system to handle said commingled production.

CASE 2135:

Application of Nearburg & Ingram for an order creating a new oil pool and for the promulgation of temporary special rules and regulations therefor. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Pennsylvanian production consisting of the NW/4 of Section 35, Township 12 South, Range 37 East, Lea County, New Mexico. Applicant further seeks the promulgation of temporary special rules and regulations governing said pool including a provision for 80-acre proration units.

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GOVERNOR JOHN BURROUGHS CHAIRMAN

State of New Wexico **O**il Conservation Commission

LAND COMMISSIONER MURRAY E. MORGAN MEMBER



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

P. 0. BOX 871 SANTA FE

December

1950

Mr. Jack Campbell Campbell & Mussell Box 766 Hosvell, New Mexico

Case No. 2134 & 2135 Re: Order No. B-1837 & 1836 Applicant:

MEARBURG & INGRAM

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

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Carbon copy of order also sent to:

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| Aztec | 000 | | |

Other



MR. MUTTER: The hearing will come to order. The next case will be 2134.

MR. MORRIS: Case 2134. Application of Mearburg & Ingram for a dual completion, for permission to commingle the production from two separate pools, and for an automatic custody transfer system.

MR. CAMPBELL: Mr. Examiner, I am Jack M. Campbell, Campbell & Russell, Roswell, New Mexico. I would like to move that Case No. 2134 and Case No. 2135 be consolidated for the purpose of the hearing and that we call Case 2135, if the motion be granted.

MR. NUTTER: They both relate to the same area, Mr.Campbell?

> MR. CAMPBELL: They do.

MR. NUTTER: We also call Case 2135 at this time.

MR. MORRIS: Case 2135. Application of Nearburg & Ingram for an order creating a new oil pool and for the promulgation of temporary special rules and regulations therefor.

(Witness sworn)

TOM L. INGRAM,

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

DIRECT EXAMINATION

BY MR. CAMPBELL:

DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, NEW MEXICO

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- Will you state your name, please? Q
- Tom L. Ingram. Α

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Q What is your business or position?

A Graduate geologist.

Q Have you previously testified before this Commission or its Commissioners in your professional capacity?

A I have.

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MR. CAMPBELL: Are the witness' qualifications accept-

MR. NUTTER: Yes, sir.

Q (By Mr. Campbell) Are you acquainted with the application of Nearburg & Ingram in Cases 2134 and 2135 now before the Commission?

A I am.

Q Will you state what you are seeking with regard to those two cases, Mr. Ingram?

A We are seeking to establish a new oil pool from the Atoka Pennsylvanian, dually complete the Devonian and the Atoka to commingle the oil and to set an automatic custody battery.

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

I hand you what has been identified as Exhibit No. 1 in these cases, and ask you to state what that is, please.

A Exhibit No. 1 is a subsurface structural contoured to the top of the Atoka sand which has been designated by the Commission as the Southwest Gladiola area, the Nearburg and No. 1 Midhurst located in the northwest quarter of the northwest quarter of



Section 35, 12 South, 37 East, and was drilled to the Devonian. In the process of drilling the well we encountered shows in the Atoka sand which were drill stem tested and then we drilled to the Devonian, ran pipe to the Devonian and, however, prior to completing in the Devonian, we ran production tests in the Atoka zone.

Q Mr. Ingram, with regard to Exhibit No. 1, what area are you now seeking to have included as a part of the Atoka-Pennsylvanian Pool here?

A We have requested that the northwest quarter of Section 35 be included.

Q You are acquainted, are you not, with the order of the Commission which defined and set up temporary rules for the Southwest Gladiola Pool, are you not?

A Iam.

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). (4) 1 × 1 Q In your opinion, and based upon the information you presently have available, are the possible limits of this Atoka-Pennsylvanian zone in this area generally coextensive with the limits of the Southwest Gladiola-Devonian Pool?

A Yes, I believe they will be in addition to the Nearburg and Midhurst No. 1 Moss 4 peak of the northeast dual offset to have drill stem tested the same zone and oil from it. The only other well that has possibly tested it would be the Maxbury No. 1 Rufus Craig. And in Section 27, the reason possibly is that the sand interval is extremely thin and the drill stem test they took covered a very large interval and it did recover water on it.

Q Your No. 1 Well that you have mentioned here is not now within the defined limits of the Southwest Gladiola Pool, is it? A It is not, other than the fact it is within a mile of the well.

Q You did encounter commercial production in that Pool, did you not?

A We did.

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5-54 5-54 (Wr.ereupon, Applicant's Exhibit No 2 was marked for identification.)

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Q Now, I'm going to hand you what has been identified as Exhibit No. 2 and ask you to state what that is.

A Exhibit No. 2 is a log on Nearburg No. 1 Midhurst.

Q Referring to Exhibit No. 2, will you point out to the Examiner the zones that are involved in this application?

A On the lower portion of the regular 2-inch scale in the log, at the 11,119 to 11,124 feet is indicated the perforations in the Atoka sand, on the basil portion of the log at 12,188 to 12,198 we have indicated the Devonian perforations.

Q So you have an interval between the two zones in excess of 1,000 feet?

A That's correct.

Q In your opinion, are these two zones completely segregated by impermeable area zones vertically?

A They are completely separated by the various formations and also with pipe and cement in the well bore. Q Now, will you state to the Examiner briefly the completion history of the No. 1, which you are now seeking to dually complete?

PAGE 6

A Upon drilling to a total depth, $5\frac{1}{2}$ -inch casing was set and cemented and then the Atoka sand was perforated at the 11,119 to 11,124. The perforations were washed with 500 barrels of mud acid and the well was placed on production tests. It flowed 358 barrels of oil in seventeen hours on various choke sizes ranging from 1664 to 2464.

Q In the Atoka zone?

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A This is in the Atoka zone. The GOR averaged 4,000 to 1. The gravity of the oil was 52 degrees. We do not have bottom hole pressure tests other than that taken on the drill stem test and that pressure, the pressure at that time was 3565.

Q Now, you have stated, as I recall, that the GOR was 4,000 to 1, and the gravity of the oil was 52 in the Atoka zone. Will you give the comparable information with regard to the Devonian zone, please?

A In the Devonian the gravity was also 52 degrees. The GOR was 650 to 1.

Q Do you have any information regarding the flowing and shut-in pressures in the Atoka-Pennsylvanian from your testing?

A The pressures obtained on drill stem test in the Atoka formation are flowing pressure, initial flowing pressure was 2,080 the final flowing pressure was 25, but the initial shut-in -- the

page 7

final shut-in pressure, 3565, the significance of this being that we have excellent permeability in the sand.

Q From the information you have available as to the pressure differentiation, do you believe, and considering the relation of that to permeability, do you believe that a well in this Atoka-Pennsylvanian zone will efficiently drain 80 acres?

A I believe it will drain at least 80 acres.

Q Are you, in this application, asking for a temporary spacing which will run consecutively in time with the present order in the Southwest Gladiola Pool?

A Right, for 80-acre spacing along with the specified present order.

Q So you expect if the order is issued, it will have a terminal date which will be identical with the date on which you will have to come before the Commission again for any extension of the 80-acre spacing order in the Southwest Gladiola-Devonian Pool? A That's correct.

Q Are you also asking that the spacing requirements and well location be the same in this particular pool as in the other Devonian?

A Yes.

Q With regard to the economics of drilling additional well to this Atoka-Pennsylvanian zone, will you give the Examiner the information you have with regard to computation of reserves and possible payout on the Atoka-Pennsylvanian zone alone, in the event



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you were unable to dually complete this well with the Devonian? A As I have previously stated, we have no core data, only the log data. So by making volumetric calculations from the log, we have a net pay thickness of 6 feet, average porosity of 18 percent, water saturation is 48 percent.

> MR. NUTTER: What, 6 feet of pay, 18 percent porosity? 48 percent water saturation.

MR. NUTTER: 48 percent water saturation?

A Yes, sir. On the basis of this data, it would appear we will have approximately 125 barrels per acre foot or 750 barrels per acre. This would give you reserves in the order of 30,000 barrels for 40 acres, or 60,000 barrels for 80 acres.

Q What do you estimate the cost of drilling a well would he drilling and completing a well in the Atoka-Pennsylvanian zone?

A Well, we feel a well, solely for this one particular formation, it would cost approximately two hundred thousand dollars.

Q So then on the basis even of 80-acre spacing this presents a matter of a very questionable investment, is that correct?

A That's correct.

Q If you were called upon to drill wells on the basis of 40-acre spacing, do you believe it would be economically feasible to recommend to your company they drill a well to develop this particular zone?

A I do not.

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MR. CAMPBELL: That's all the questions I have of this



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witness.

MR. MUTTER: Any questions of the willess? CROSS-EXAMINATION

BY MR. PAYNE:

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Mr. Ingram, I believe you testified that you are seeking Q substantially the same type order as entered in the Southwest Gladiola-Devonian case?

А Yes.

I presume you also meant flexible well location pattern Q, so that you can dual these wells?

Yes, sir, I would want it to go right along with that А one.

And inasmuch as you have testified the two reservoirs are Q relatively coextensive at levels you dual the wells, in the area that you drill to dually complete them in both?

Assuming they are quite productive in both zones. А

Q What disposition is being made of the well from the Southwest Gladiola?

It is going to Service Pipeline Company. А

It doesn't have to be trucked, then? Q

No. А

A

Between now and the time the case is heard again for Q permanent rules, do you propose to gather core data and take interference tests? Do you feel they will be of some benefit? Interference tests?

Q One well to the other as additional development in this area takes place?

A We have made no plans to actually shut the well in from the standpoint of running interference tests. The only well, as I say, that is in now is the Nearburg Midhurst, and I assume the Moss Well as soon as it has shown production will probably be quite completed in the similar manner.

Q That's what I'm getting at. The time is going to be excellent to gather additional information on this particular Atoka Pool, inasmuch as the Southwest Gladiola is to be heard again in July, this coming July?

A Right.

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Q Do you feel you will have much more additional information as to the drainage in this Pool at that time?

A Well, I feel by the July hearing there will be at least two to four more wells in the area.

MR. NUTTER: In the Atoka?

A Well, in the Southwest Gladiola area, which, to reach the Devonian, they have to go through this formation, they should have that data available.

MR. PAYNE: Thank you.

BY MR. NUTTER:

Q Well, some of the wells in here are Devonian, some of them are Wolfcamp, and some of them Atoka, then one Atoka so far? A Right, yes, sir.



Q Are any of the wells which are completed in the Wolfcamp and Devonian dually completed?

A No, sir, there are no duals in the area.

Q No duals here yet?

A NO.

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Q Mr. Ingram, you gave us the bottom hole on drill stem test in the Atoka as 3565?

A We didn't give a bottom hole pressure test to the Devonian. Bottom hole pressure on the Devonian, 4640.

Q You also stated it would cost two hundred thousand dollars to drill to the Atoka for a completed flowing well?

A That's right.

Q What is the estimated cost of the dual completion, if you've got a well to the Devonian, say?

A Approximately two hundred and seventy-five thousand dollars.

Q I meant for the dual completion itself. If you had a well in the Devonian, if you wanted to dual it?

A Additional would be approximately thirty thousand dollars.

Q Stated that Moss had taken a drill stem test to the Atoka, on the No. 4 Weil?

A Yes, sir.

Q Do you know if it is their intention to complete that well in the Atoka or not?



It's my understanding he plans to.

Α

Q What is the status on your lease in the southeast quarter of the northwest quarter of Section 35?

A It was drilled in 1954 by the Lawton Oil Corporation No. 1. It was drilled to the Devonian and was established as a dry hole. We plan to reenter this hole and attempt to make both the Devonian and the Atoka completion.

Q How do the logs look in the Atoka itself?

A They are rather comparable to what they are here, slightly lower.

Q Do you know of any other wells that had a show in the Atoka in this area besides yours and the Moss No. 4?

A The Arthur Maxbury Well upon which the previous hearing was based is structurally the high well.

Q. What is the location of that well, please?

A It is in the northeast of the southwest. Q Of 27?

A Right, yes, sir. No tests have been taken on it. The only three wells that had tests in them are Midhurst, the Moss No. 4, Peck and the current Maxbury Well. Skelly did take tests in their No. 2 Foster in the northeast quarter of the southeast quarter of Section 27. However, it appeared from the logs that they did not include the sand they set the packer right at the base of the sand. One reason, possibly, that the sand has not been tested previously, it is angular, quite coarse, quite quartz sand, which



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PAGE 13 drills extremely hard, and the shales, both above and below, drill quite softer than this does, and cores of the high gravity and the hard nature of the sand, that you get no visible staining in your So all data you gave us, the 6 foot, 18 percent porosity the 48 percent water saturation, are all estimates, is that corsamples on it. CH 3-6691 None of these are actual measurements? PHONE They are taken from --Inc. rect? MR. NUTTER: Mr. Campbell, will someone else test on the DEARNLEY-MEIER REPORTING SERVICE, Calculated? А Off the log, yes, sir. 4 414 Q, A 1.59 mechanical installation here? Mr. Ingram, in the Southwest Gladiola case, if you re-Yes, sir. 423 MR. CAMPBELL: call, there might be a fault between the Maxbury and the Moss Well • (123) (124) (124) in the Devonian, and the Skelly Well between them was drilling at BY MR. PAYNE: that time. Do you have any information as to what that Skelly Well 1.13 Skelly Well was completed as a drill hole. It was lower structurally than either the Moss or the Maxbury Wells. That's the reason you bend your contours, to take care ALBUQUERQUE, NEW MEXICO 919; That's the reason, it's the reason the Devonian is relatively the same, I mean with slightly steeper dip, as the structure of that low well?

we have shown here.

MR. PAYNE: Thank you.

REDIRECT EXAMINATION

BY MR. CAMPBELL:

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DEARNLEY-MEIER REPORTING SERVICE, Inc.

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Q Mr. Ingram, with regard to the Moss Well No. 4 which is northeast of your well, have you discussed this application with the Moss people?

A I have, and Mr. Little called at noon to state he would be unable to be here when -- Mr. Little is with H. S. Moss, and he was running a drill stem test on this well, then he would be unable to -- however, he would like to enter Moss in favor of the proposal we have made.

Q So that Moss, the Moss people favor all of the requests that you are making here, is that correct?

A They do.

MR. CAMPBELL: That's all the questions I have of this witness.

MR. NUTTER: Any other questions of Mr. Ingram?

RECROSS-EXAMINATION

BY MR. PAYNE:

Q Do you think the Moss Well is completed in the same pool as the Maxbury Well?

A In the --

MR. NUTTER: Devonian.

A Devonian. Until we get a little more information, T



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| .[| think it is extremely difficult to say. I recall at the last hear- |
| | ing we had all of the maps with 98 faults or 48 faults and what not |
| | MR. NUTTER: Now, the default goes around the pool: |
| | A This is an extremely simplified verson. However, one I |
| | can logically say will fit the Atoka picture as we have it now. |
| | MR. NUTTER: These contours |
| | A On top of the Atoka sand. |
| | MR. NUTTER: This is Atoka and doesn't reflect the |
| | structure in the Devonian necessarily, or do you think the Devon- |
| | ian |
| | A I feel in other words, this reflects the Devonian |
| | structure that we have. |
| | MR. NUTTER: I see. Which was, the available informa- |
| | tion would indicate that the Moss Well and the Maxbury Well would |
| | be the same pool? |
| | A Right. |
| | Q And the Skelly merely lower on the same structure? |
| | A Yes. |
| | MR. NUTTER: Any further questions of Mr. Ingram? You |
| | may be excused. |
| ALBUQUEIQUE, NEW MEXICO | (Witness excused) |
| | MR. CAMPBELL: Mr. Gray. |
| | RALPH L. GRAY, |
| 5 | called as a witness, having been first duly sworn, testified as |
| | follows: |

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PAGE 16 DIRECT EXAMINATION BY MR. CAMPBELL: Q Will you state your name, please? Α Ralph L. Gray. HONE CH 3-669 Where do you live, Mr. Gray? Q DEARNLEY-MEIER REPORTING SERVICE, Inc. Artesia. A What is your position and business association? Q I am a petroleum engineering consultant. Α Have you previously testified before this Examiner or ର୍ this Commission in your capacity as petroleum engineer? Α Yes, I have. MR. CAMPBELL: Are the witness' qualifications acceptable? MR. NUTTER: Yes, sir. (By Mr. Campbell) Have you been employed by Nearburg & Q Ingram in the consulting capacity for the purpose of supervising the installation of a dual completion in their No. 1 Midhurst Well? Α Yes, sir. ALBUQUERQUE, NE V MEXICO (Wheremon; Applicant's Exhibit No. 3 was marked for identification.) I hand you what has been identified as Applicant's Ex-Q hibit No. 3, and ask you to state what that is, please. Exhibit No. 3 is a diagram showing the mechanical aspects А of this proposed dual completion installation. As the diagram shows, there will be two blower strings of 2 1/16-inch tubing,



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there will be a Baker Model "D" production packer, which will be set between the Devonian and the Pennsylvanian-Atoka sand. long string of tubing will then be set down into the top of the permanent type packer. Then above the Pennsylvanian-Atoka sand will be a Baker Model "K" retrievable type dual packer, and the short string of tubing will be set in with the top of this packer. Then other equipment will be Garret circulating nipple at the bottom of the short string to facilitate changing fluids in the annulus, if desirable, and then there will be seating nipples in the bottom of each tubing string. That, in essence, is the completion. To your knowledge, is this type of dual completion with the twin tubing one that is in use in New Mexico at this time? Yes, it's one that is similar to other installations in Å Do you believe this type installation can be used without the State. any danger of communication between the two producing zones? Yes, sir, I do. Do you believe that it can be completed without any risk Α of waste of oil from either of the two zones? Q, ALBUQUERQUE, NEV' MEXICO (Whereupon, Applicant's Exhibit Nb. Tes, gir. А 4 was marked for identification) Attached to the application in this case, Mr. Gray, I believe there is a diagrammatic sketch of the Christmas Tree assembly. Are you acquainted with that?

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PAGE 18 Yes, I have seen that. Α Referring to that Exhibit, is that proper representation Q of the installation that you intend to make if this application is granted? Yes. That shows the type of wellhead equipment Christ-Α mas Tree installation that is proposed. This is normal installation for dual completions. MR. CAMPBELL: That's all the questions I have of this witness, Mr. Examiner. MR. MUTTER: Any questions of Mr. Gray? CROSS-EXAMINATION BY MR. PAYNE: Mr. Campbell, did this witness propose to testify on Q LACT? MR. CAMPBELL: No, sir. We have another witness to testify on the LACT. (By Mr. Payne) It is possible to efficiently lift post Q zones, if necessary? That's right. Α And the top of the cement on the long string is 8500 Q feet, 1s that correct? A That's correct. MR. NUTTER: Any further questions of Mr. Gray? You may

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(Witness excused)

GEORGE W. WILLIAMS, called as a witness, having been first duly sworn, testified as follows: DIRECT EXAMINATION BY MR. CAMPBELL: Will you state your name, please? George Williams. Where do you live, Mr. Williams? Midland, Texas. By whom are you employed? Mid-Continent Supply Company. What capacity? Divisional sales engineer. As divisional sales engineer, have you had occasion to consult with Nearburg & Ingram with regard to possible installation of LACT unit in connection with their lease on which the Midhurst

MR. CAMPBELL: Mr. Williams.

No. 1 is now situated?

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That's correct. А

Q And have you had thereby prepared, your company prepared sketches of the installation that you contemplate using in the event such a unit is approved by this application?

We have. Α

> (Whereupon, Applicant's Exhibit No. 4 was marked for identification.)



PAGE 19

I refer you to what has been identified as Exhibit No. h This is a proposed LACT system for the Midhunst Lease. and ask you to state what that is, please. Will you, then, point out to the Examiner how the system would operate with regard to the production from this dually com-Well, the production from the Pennsylvanian and Devonian would come into headers and then the Pennsylvanian production pleted well? would go through a treater and the Devonian production will go DEARNLEY-MEIER REPORTING SERVICE, Inc. through a treater. We propose to meter the Pennsylvanian production with a PD type meter basin engineering type 8 5 T. The Devonian oil then, and the Pennsylvanian oil would commingle and go to the shipping tank, and you will notice the shipping tank has three switches in it, the four-foot level is the stopping switch, the twelve-foot level is the starting switch for the LACT unti itself. In the event of bad oil, a BS&W Montrey probe which will divert the bad oil into the bad oil tank by means of a clay valve which is on top of the tank. Both of these clay valves are energized, one of them opened on the shipping tank, the other one closed on the bad oil tank. If the monitor detects bad oil, then it will close the shipping oil valve and open the bad oil tank. We have a bad oil switch in the bad oil tank which would automatically start albuquerque, new mexico up a surge pump and recirculate bad oil back to the Devonian treater. For safety purposes, we have a high safety shut-in switch which will be operated automatically. And in the event of malfunc-

CH 3-6691

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PAGE 20

PAGE 21 tion, it will shut in the two safety shut-in valves back at the header. Of course, the LACT unit itself has the normal safety features incorporated in it; such as allowable shut-in in the meter itself and the detector switch in the meter which, in case you weren't getting any oil from the shipping tank, it would shut Are you acquainted with the personal supervision that is intended with regard to this lease availability of personnel to 3-1691 down the LACT pump. **1** PHONE CH 3 • check the operation of the equipment? Inc 614 1 There would be a pumper by each day, of course, or at DEARNLEY-MEIER REPORTING SERVICE, What is the situation on that? Yes, sir. least once a day to check this particular equipment. In view of what you call safety equipment that is available here, do you believe there is any danger of the waste of oil ь.⁶⁴, us a result of the operation of this system in the event some mal-للايوني To your knowledge, are there other installations of this No, it would simply shut the wells in. type or identical with this in operation in New Mexico which have function developa? There are a number of these which have been approved by albuquerque, new mexico been approved by the O.C.C.? I be-Pan American has several in operation, Abo Field. Do you know of thand any of them? 14 A the Comulaston. Q, A

lieve Great Western has some of them on Caprock. Hondo Oil & Gas in the Abo Field.

the Abo Fleto.

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(Whereupon, Applicant's Exhibit No. 5 was marked for identification.)

Q I hand you what is identified as Applicant's Exhibit 5, and ask you to state what that is.

A This is the LACT unit itself which includes a transfer pump, the strainer, air eliminator, a type T-6 meter with allowable shut-in, a sampler, back pressure injuection valve, and also prover connection for prover tank.

Q That is essentially what's to be installed on the LACT unit on this particular installation?

A That is essentially what is going to be installed. That doesn't show the panel. There is a panel for controls.

Q In your opinion, can this system be installed and operated in connection with the production of oil from these two zones without waste?

A Yes, sir, it would probably save light in -- it's a tightly closed system. Any system that is closed will be an advantage conservationwise, it will not lost light.

Q You heard Mr. Ingram testify the gravity of the oil from each of these two are the same, 52, did you not?

A Yes.

Q The oil under this system from those two zones, if approved by the Commission, will be commingled, will it not?



A Yes, sir.

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ः • Q Of course, being the gravity that will not affect the value of the oil, will it?

A No, it would not.

Q Has this installation been discussed with the pipeline purchaser or the purchasing company who is, which is running this oil?

A Yes, sir, I discussed it with Service Pipeline at Lubbock and the New Mexico office.

> (Whereupon, Applicant's Exhibit No. 6 was marked for identification.)

Q I hand you what has been identified as Exhibit No. 6, and ask if that is a letter directed to Mr. Ingram in connection with the discussion of the installation from the Service Fipeline Company?

A Yes, this is the letter.

Q This letter does approve the installation, does it not?
A Yes, sir.
Q I notice they have made reference to the

necessity for installation of the back pressure ahead of the prover tank connection.

A That's shown on the diagram there, the schemmatic, the back pressure value is placed in back of the prover connections.

MR. CAMPBELL: I have no further questions of this wit-

ness.

MR. NUTTER: Any questions of the witness?



CROSS-EXAMINATION

BY MR. PAYNE:

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نې د ا Q Mr. Williams, if I understand your diagram right, you don't promise to separately meter the production from the Devonian?

A That's correct. We would just simply meter the Pennsylvanian and deduct that from the total from the LACT meter, and that would be the Devonian production.

Q Doesn't that charge all the shrinkage that might occur, if any, to one zone only?

A I don't believe so. I think we have plenty of time in the shipping oil tank to allow that that.

Q How are you going to attribute the shrinkage back to each zone if you only meter one side 50 percent to each?

A I feel they're both the same gravity, probably be the same amount of shrinkage.

Q Do you think there is any shrinkage in the LACT system of this type, or do you consider it negligible?

A Negligible, yes, sir, negligible amount.

Q Do you feel that in a case where an operator only going to use one meter you should use a non-reset type meter and take his allowable as reflected by the meter reading since there isn't going to be any shrinkage, or it's going to be negligible?

A I didn't understand that question.

Q Well, now, usually what you do, say your allowable is



100 barrels, you deliver that one hundred barrels to the tank where you sell it, isn't that right?

А Yes, sir.

Now, assuming there were shrinkage, 105 percent might Q have gone through the meter and be reflected by the meter, might there not?

That's possible. A

So that if there is no shrinkage, the meter reading Q should be actual oil that's sold and should, therefore, reflect the allowable. In other words, you have 100 barrels, you run 100 barrels through the meter?

Α Right.

And I don't suppose you can speak for the operator in Q this case, but would such an installation seem reasonable to you?

Well, it can be easily installed, we are just trying to А conserve some money, around five hundred dollars additional cost for that type of meter.

Q What would two meters cost?

I'd say five hundred each. Α

Five hundred each? ୁପ

А Yes, sir.

MR. PAYNE: Thank you.

BY MR. NUTTER:

Mr. Williams, you mentioned the names of a number of Q, installations similar to this in operation in the State of New



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Mexico. First, may I ask you if this Atoka formation is capable of making top allowable in the Atoka Pool?

A Yes. You asked if it will?

Q Yes, sir, if the Atoka completion is capable of making top allowable for the Pool?

I believe that's right.

MR. NUTTER: Will the Devonian make top allowable, Mr. Williams?

A Yes, sir.

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Q You stated you were acquainted with several similar installations in the State of New Mexico. Are you acquainted with the single installation anywhere in the State of New Mexico where top allowable wells are permitted to commingle with only one meter installed?

A I was referring to the system, LACT system itself.

Q The LACT unit itself, as depicted in the Exhibit?

A The way we are bringing it into the two probes with the probe and the riser, the monitor probe using the bad oil and the shipping tank.

MR. CAMPBELL: Mr. Examiner, I might say on that. Of course, the operator, I am sure, will install whatever measuring equipment the Commission advises. Due to the minimum amount of shrinkage, that is, the fact this type of system simply on the position that it might be satisfactory to the Commission to calculate the production from the Devonian in this feshion. Any metering


PAGE 27

system which the Commission considers essential to properly meter the oil I am sure would be installed by the operator, but it is a matter, as the Commission knows, of economics.

Α Yes, sir.

Mr. Williams, what make of meter is that? T-6,A O Smith Q **T-6**?

A Yes, sir.

Q Now, how much space is available in this 500 barrel shipping tank from the 12-foot high level switch up to the top of the tank where it goes up to the overflow into the bad oil tank? Well, this is a 16-foot high tank, so you would have 3 A feet.

Which would be roughly a fifth of the capacity of the Q tank or maybe 100 barrels?

32 barrels per foot. Α 16.

You've got 100 barrels of capacity above the high level Q switch then?

A Yos.

Normally, the bad oil tank would be empty, would it not? Q That's correct. А

Q It has a capacity of 500 barrels?

Yes, sir, five hundred barrels of available space prior А to the time the high level safety shut-in switch is acquiescated. I misunderstood. You want above the high safety shut-in switch there?



ALBUQUERQUE, NEW MEXICO

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A The 12-foot high level switch.

Q What I'm thinking of, in the event that a malfunction of the equipment should occur, just prior to turning on just when the oil gets up to the 12-foot level, then you have a malfunction and the wells are still producing all right, you've got three foot of available space from the 12-foot high level switch to the high safety switch in equivalence --

A Right.

Q -- would be approximately 100 barrels?

A Yes, sir,

Q And then overflow?

A Actually, you wouldn't have an overflow because your well would shut-in there because the high level switch is below the equalizer line.

Q Good oil would never overflow there into the bad oil

tank?

A That's right. Q I In the event of malfunction, 100 barrels of available storage capacity prior to the time the high safety shut-in switch is adequate at this time?

A That's right.

Q Which switches in the header?

A Yes, sir.

Q These are high pressure valves?

Yes, sir.

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| с. Г | Q What accommodation is made for this high pressure on |
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| | these wells are shut-in? |
| | these flow lines while those and there will be pipe for A These lines will be buried, and there will be pipe for |
| | |
| 5 | the return of these wells. |
| PHONE CH 3-6691 | Q What is the strength on this type of pipe? |
| HONE | A Sir? |
| HA | Q What is the test pressure on these flow lines? |
| | Q What is the court A It will show the pipe will carry approximately 4000 |
| | pounds per square inch. |
| 1 | the abuttin pressures on these wells |
| | Do you have that information, m. 200 |
| | MR. WILDIARD. The shut-in pressure on the Devonian is MR. INGRAM: The shut-in pressure on the Devonian is |
| TV | MR. INGRAM: Ine shar around 900 excuse me 700 pounds, and on the Pennsylvanian around 900 excuse me 700 pounds, and on the Pennsylvanian |
| REPUKIING | around 900 excuse me 700 pounds, |
| KĽ | around 900 - excuse it was 1800 pounds. Surface pressure per specification. |
| X | hoth these sale of point |
| EY-MEILK | They are normally gloses |
| W | a guine to open them, so and |
| EY | and will require pressure of i there we lose our pressure, and they will automatically shut-in, |
| | there we lose our pressure, and there rises, why, it will |
| AR | there we lose our pressure, and and, of course, if the high safety valve there rises, why, it will |
| DEARNL albu zuerque, new mexico | send a signal down and relieve the pressure. |
| RQUE, | send a signal down and Perford Q Is there any known corrosion problem in the Devonian or |
| ຍບ ໃນຄ | |
| ALE | |
| | A Not to my knowledge. Q And you don't anticipate, then, you will need any kind |
| | Q And you don't anticipate, then, you |
| | Q And you don't and topped in this automatic custody trans- of corrosive resistance equipment in this automatic custody trans- |
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| fe | |
| | A That's right. Q Mr. Ingram, have you encountered corrosion difficulty |
| | ith regard to the oil from these wells? |
| W | We have not. |
| | MR. INGRAM: We have a Q Do you know of anyone producing Devonian who has en- |
| | countered any corrosion problem? |
| | ain not in this pool. |
| | DAYNE: |
| | Q Have you had any parrafin problems? |
| | MR. INGRAM: No, sir. |
| | MR. NUTTER: Any further questions MR. CAMPBELL: I would like to offer Exhibits 1 through |
| | 6. MR. NUTTER: Nearburg & Ingram's Exhibits 1 through 6 |
| | will be entered into evidence. (Whereupon, Applicant's Exhibit 1 through 6 were received in evidence.) |
| ALBUQUI RQUE, NEW MEXICO | MR. NUTTER: Do you have anything further? MR. CAMPBELL: No, I don't believe I do. I'm sure the |
| ZUE, NEI | trying to do note |
| JUQUI R(| the world as a drawn of |
| ALE | opportunity to produce this woll obtain what information we can to present to the Commission in |
| | July. I also believe MR.INGRAM: I would like to make one remark in regard |
| | MR.INGRAM: I WOULD HERE US MALL |

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PAGE 31

the metering situation. In other words, it's -- I feel it's not a question of just installing one more; if we install more meters we will have to install at least two. My reason on that being we have one on our Pennsylvanian flow line, and then it would also, for this to be accurate, also be necessary to put one on the bad oil line. Any oil that went around our system, the difference between this meter and the one we have would be the amount of oil that is produced by the Pennsylvanian. In other words, if any bad oil is produced by it from the Pennsylvanian or the Devonian, we have it set up to go back through the Devonian treater on it.

MR. NUTTER: Is either one of these wells making water? A Well, on the drill stem test that we took, we made a slight amount of water. On the limited production test that we ran on the Pennsylvanian we did not make any water. However, we feel that if one of two zones are going to make water, it would probably be the Pennsylvanian zone so that the Devonian meter would have the less amount of work. So, therefore, we ran the bad oil back through it.

MR. NUTTER: Have you actually had to install treaters? A We have not. As of now, we just have had a separator on the Devonian side.

Q So far separation is handling the production without treating?

A It is, yes, sir.

Q Now, in circulating the system back to the bad oil line

DEARNLEY-MEIER REPORTING SERVICE, Inc. RQUE, NEW MEXICO PHONE CH 3-669

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will that be a manual or an automatic circulator?

A Automatic.

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MR. WILLIAMS: The bad oil switch starts that pump. MR. NUTTER: Starts the bad oil pump and that is activated by the monitor?

MR. WILLIAMS: That's correct.

MR. CAMPBELL: I think, Mr. Examiner, there is another owner of property in the area present that desires to make a statement, enter a proposal in the case.

> MR. NUTTER: Do you have anything further, Mr. Campbell? MR. CAMPBELL: No.

MR. NUTTER: Does anyone have any statement in Case 2132 or 2135?

MR. HARTLEY: I would like to enter an appearance for some mineral owners who are also interested in the drilling of this area.

MR. NUTTER: Would you state your name?

A Earl Hartley, appearing for myself and for Brady Lowe, and Lowe Land Company. And wish to make a further statement. We concur in the request and request that you consider the evidence presented as part of our evidence in the case.

MR. NUTTER: We sure will. Does anyone have anything further for this case? We will take the case under advisement, and the hearing is adjourned.



PAGE 33

NEW MEXICO) STATE OF 33 COUNTY OF BERNALILLO)

CH 3-6697

DEARNLEY-MEIER REPORTING SERVICE, Inc.

ALBUQUERQUE, NEW MEXICO

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

WITNESS my Hand and Seal this, the <u>day of</u> <u>decc</u>. 1961, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

NOTARY PUBLIC

My Commission expires:

June 14, 1964

I do hereby certify that the ferogoing is a complete result of the presentation the Erastree Meaning of Case No. 2134 + 2135 heard by my on 11/30 1960

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BEFORE THE OIL CONSERVATION COMMISSION

NO.

STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF NEARBURG & INGRAM FOR AN ORDER OF THE COMMISSION DE-FINING AN OIL POOL DISCOVERED IN THE PENNSYL-VANIAN-ATOKA SAND FORMATION BY ITS NO.1 MIDHURST WELL IN THE NWINW, SECTION 35, TOWNSHIP 12 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO; ESTABLISHING TEMPORARY 80 ACRE SPACING AND PROBATION UNITS IN SAID POOL; PERMITTING DUAL COMPLETION OF SAID WELL IN THE PENNSYLVANIAN-ATOKA SAND AND DEVONIAN FORMATIONS; AUTHORIZING THE INSTALLATION OF AUTOMATIC CUSTODY TRANSFER EQUIPMENT; AND PERMITTING THE COMMINGLING OF OIL FROM THE PENNSYLVANIAN-ATOKA SAND AND DEVONIAN FORMA-TIONS ON THE LEASE ON WHICH SAID WELL IS LOCATED

als. or

APPLICATION

COMES NOW Nearburg & Ingram, through its Attorneys, Campbell & Russell, and states:

1. It is the operator of the Nearburg & Ingram No. 1 Midhurst well situated 510 feet from the North line and 660 feet from the West line of Section 35, Township 12 South, Range 37 East, in Lea County, New Mexico.

2. This well was completed in the Devonian formation and is subject to the rules established by the Commission for the Southwest Gladiola Devonian Pool.

3. It encountered commercial shows of oil in the Pennsylvanian-Atoka Sand formation and desires to complete said well as a dual completion.

4. It would be in the best interests of conservation to establish the same spacing pattern for the Pennsylvanian-Atoka Sand formation as the Commission has established in the Devonian formation by its Order No. R-1724.

5. It desires to install automatic custody transfer . equipment and commingle oil from said formations.

6. Attached hereto are the following exhibits:

Exhibit 1 - OCC form "Application for Dual Completion" Exhibit 2 - Diagrammatic sketch of Dual Completion Exhibit 3 - Diagrammatic sketch of Christmas Tree Assembly Exhibit 4 - Plat showing Applicant's and offset leases

WHEREFORE, Applicant requests the Commission to set this matter down for hearing before an Examiner for the Commission, to publish notice as required by law and, after hearing, to enter its order:

1. Establishing a new oil pool in the Pennsylvanian-Atoka Sand formation discovered by the Nearburg & Ingram No. 1 Midhurst Well.

2. Providing for temporary 80 acre spacing and proration units for said pool co-extensive with order No. R-1724 and upon the same conditions as to well location.

3. Permitting the dual completion of Nearburg & Ingram No. 1 Midhurst Well in the Pennsylvanian-Atoka Sand and Devonian formations.

4. Authorizing the installation of lease automatic custody transfer equipment for Applicant's Midhurst lease consisting of the NW¹/₄ of Section 35, Township 12 South, Kange 37 East.

5. Permitting the commingling of oil produced from the Pennsylvanian-Atoka Sand and Devonian formations on said lease.

Respectfully submitted, NEARBURJ & INGRAM

F. O. Box 766 Roswell, New Mex1co

Its Attorneys

DATED: October 27, 1960

NEW MEXICO OIL CONSERVATION COMMISSION

| ction 35 Commission heretofore ell? YESNO tance: Order No, | | Weil No. 1 Range 37 letion of a well in thes | 7-East e same pools or in the same |
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| Mi ction 35 Commission heretofore ell? YESNO tance: Order No, | Township 12-South authorized the dual compl X | l Range 37 letion of a well in thes | 7-East e same pools or in the same |
| 35 Commission heretofore ell? YESNO tance: Order No, | 12-South authorized the dual compl X | 37 letion of a well in thes | e same pools or in the same |
| Commission heretofore ell? YESNO tance: Order No, | authorized the dual comp X | letion of a well in thes | e same pools or in the same |
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| | er Zone | Le | ower Zone |
| Pennsylvanian | (Atoka Sand) | Devonian | <u></u> |
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| ark YES or NO) | | | |
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| notified and furnished | a copy of this applicatio | n? YES X NO | . If answer is yes, give da |
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| te that I am thePa | rtner | of the Nearb | ourg & Ingram |
| y), and that I am author | rized by said company to r in are true, correct and co | make this report; and th | hat this report was prepared |
| y), and that I am author | rized by said company to r in are true, correct and co | make this report; and th | hat this report was prepared by knowledge. |
| | 11,119-11,124 011 Flowing ark YES or NO) Dual Completion, show ling diameters and sett nt. f all wells on applicant ting applicant's lease. dual completion from e application.* other acceptable log with vailable at the time application. vailable at the time application. 10. Box 993, M 0. Box 662, Reserved e notified and furnished | 011 Flowing ark YES or NO) Dual Completion, showing all casing strings, inc ling diameters and setting depth, location and ty nt. f all wells on applicant's lease, all offset wells ting applicant's lease. dual completion from each offset operator, or in the application.* other acceptable log with tops and bottoms of privailable at the time application is filed, it shall which this well is located together with their con- lonal Bank Building, Dallas, Texas . 0. Box 993, Midland, Texas . 0. Box 662, Roswell, New Mexico e notified and furnished a copy of this application | 11,119-11,124 12,188-12, 011 011 Flowing Flowing ark YES or NO) Flowing Dual Completion, showing all casing strings, including size and setting flowing size and setting Build Completion, showing all casing strings, including size and setting flowing Build Completion, showing all casing strings, including size and setting flowing Build Completion, showing all casing strings, including size and setting flowing Build case flowing flowing dual completion from each offset operator, or in lieu thereof, evidence is application.* other acceptable log with tops and bottoms of producing zones and intervailable at the time application is filed, it shall be submitted as provided which this well is located together with their correct mailing address. Ional Bank Building, Dallas, Texas Ional Bank Building, Dallas, Texas |

No. 1 Midhurst Lea County, New Mexico



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NO. 35-60

DOCKET: EXAMINER HEARING, WEDNESDAY, NOVEMBER 30, 1960

Oil Conservation Commission - 9 a.m., STATE LAND OFFICE BUILDING, Santa Fe, N.M.

The following cases will be heard before Daniel S. Nutter, Examiner, or Oliver E. Payne, attorney, as alternate examiner:

CASE 2125:

5: Application of El Paso Natural Gas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Lusk Deep Unit Well No. 1, located in Unit A, Section 19, Township 19 South, Range 32 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Bone Springs pool and the production of oil from an undesignated Pennsylvanian pool through parallel strings of tubing.

CASE 2126:

Application of Tidal Oil Company for an unorthodox gas well location. Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location in an undesignated Pictured Cliffs pool at a point 1150 feet from the South line and 2040 feet from the West line of Section 21, Township 24 North, Range 1 West, Rio Arriba County, New Mexico.

CASE 2127:

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools and for an automatic custody transfer system. Applicant, in the abovestyled cause, seeks permission to commingle the production from the Dean Devonian and Dean Permo-Pennsylvanian Pools from all wells presently completed or hereafter drilled on its State Lea 396 Lease consisting of the NE/4, S/2 NW/4, and N/2 SW/4 of Section 35, Township 15 South, Range 36 East, Lea County, New Mexico, after separately metering only the production from the Dean Permo-Pennsylvanian Pool. Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production.

CASE 2128:

Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools and for an automatic custody transfer system. Applicant, in the abovestyled cause, seeks permission to commingle the production from the Denton-Devonian and Denton-Wolfcamp Pools from all wells presently completed or hereafter drilled on its T. D. Pope Lease, consisting of the W/2 of Section 36, Township 14 South, Range 37 East, Lea County, New Mexico after separately metering only the Denton-Wolfcamp production. Applicant further seeks permission to install an automatic custody transfer system to handle said commingled production. Docket No. 35-60

CASE 2129:

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Application of Sinclair Oil & Gas Company for permission to commingle the production from two separate pools from two separate leases and for an automatic custody transfer system Applicant, in the above-styled cause, seeks permission to commingle, after separate measurement, the production from the Denton-Devonian and Denton-Wolfcamp Pools from all wells presently completed or hereafter drilled on the following-described leases:

> Whitman "A" Lease, NE/4 of Section 26 Whitman "B" Lease, E/2 of Section 23,

both in Township 14 South, Range 37 East, Lea County, New Mexico, and for permission to install an automatic custody transfer system to handle said commingled production.

CASE 2130:

Application of Redfern and Herd, Inc., for an order force-pooling a standard 320-acre gas proration unit in the Basin-Dakota Pool. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Dakota Producing Interval in the W/2 of Section 29, Township 29 North, Range 11 West, Basin-Dakota Pool, San Juan County, New Mexico. The following are among the interested parties:

Aztec Oil & Gas Company, Summit Oil Company, Ruth Schrecht, Edwin A. Schrecht, Ella Blaise, and Sam Carson.

CASE 2131:

Application of Robinson Brothers Oil Producers for the creation of a new gas pool and for the promulgation of special rules and regulations therefor. Applicant, in the above-styled cause, seeks the creation of a new gas pool for Pennsylvanian production consisting of the N/2 of Section 22, Township 11 South, Range 31 East, Chaves County, New Mexico. Applicant further seeks the promulgation of special rules and regulations governing said pool including a provision for 320-acre gas proration units.

CASE 2132:

Application of Humble Oil & Refining Company for permission to commingle the production from several pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the following pools underlying the State "V" Lease consisting of the SW/4, W/2 SE/4, and NE/4 SE/4 of Section 10, Township 21 South, Range 37 East, Lea County, New Mexico: Blinebry Oil Pool, Brunson Pool, Drinkard Pool, Hare Pool, Tubb Oil Pool, Wantz Abo Pool, Blinebry Gas Pool and Tubb Gas Pool, with allocation to the various pools being based on monthly well tests except that separate metering and separation facilities would be used for oil well and gas well completions. Docket No. 35-60

CASE 2134:

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CASE 2133: Application of Humble Oil & Refining Company for an automatic custody transfer system and for an exception to Rule 309 (a). Applicant, in the above-styled cause, seeks permission to install an automatic custody transfer system to handle the Gallup production from an undesignated Gallup pool from all wells presently completed or hereafter drilled on its Navajo "L" Lease consisting of all or portions of Sections 25, 26, 35 and 36; Township 29 North, Range 14 West, San Juan County, New Mexico.

> Application of Nearburg & Ingram for a dual completion, for permission to commingle the production from two separate pools, and for an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Midhurst Well No. 1, located in the NW/4 NW/4 of Section 35, Township 12 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from an undesignated Pennsylvanian Pool and the production of ail from the Southwest Gladiola-Devonian Pool through parallel strings of tubing. Applicant further seeks permission to commingle the production from said two common sources of supply from all wells on its Midhurst Lease consisting of the NW/4 of said Section 35 and for permission to install an automatic ' custody transfer system to handle said commingled production.

> Application of Nearburg & Ingram for an order creating a new oil pool and for the promulgation of temporary special rules and regulations therefor. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Pennsylvanian production consisting of the NW/4 of Section 35, Township 12 South, Range 37 East, Lea County, New Mexico. Applicant further seeks the promulgation of temporary special rules and regulations governing said pool including a provision for 80-acre proration units.

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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. 2134 Order No. R-1837

APPLICATION OF NEARBURG & INGRAM FOR AN OIL-OIL DUAL COMPLETION IN THE SOUTHWEST GLADIOLA-PENNSYLVANIAN POOL AND IN THE SOUTHWEST GLADIOLA-DAVONIAN POOL, FOR PERMISSION TO (COMMINGLE THE PRODUCTION FROM TWO SEPARATE POOLS AND FOR PERMISSION TO INSTALL AN AUTOMATIC CUSTODY TRANSFER SYSTEM, LEA COUNTY, NEW NEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for bearing at 9 o'clock a.m. on November 30, 1960, at Santa Fe, New Maxico, before Daniel S. Nutter, <u>Herminer duly appointed by the 011 Conservation Commission of New</u> Maxico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 14th day of December, 1960, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Matter, and being fully advised in the premises,

TINDS:

(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, Nearburg & Ingram, is the owner and operator of the Midhurst Well No. 1 located in the NW/4 NW/4 of Section 35, Township 12 South, Range 37 Rast, MMPM, Lea County, New Mexico, and is the owner and operator of the Midhurst Lease, consisting of the NW/4 of said Section 35.

(3) That the applicant proposes to dually complete the above-described Midhurst Well No. 1 in such a manner as to permit the production of oil from the Southwest Gladiola-Pennsylvanian Pool and the production of oil from the Southwest Gladiola-Devonian Pool through parallel "trings of 2 1/16-inch tubing installed within a string of 5 1/2-inch casing set at total depth.

-2-CASE No. 2134 Order No. R-1837

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

(5) That the applicant further proposes to commingle the Bouthwest Gladiola-Pennsylvanian Pool production with the Southwest Gladiola-Devonian Pool production from all wells presently completed or hereafter drilled on the above-described Midhurst Lease, after separately metering the production from each pool.

(6) That the applicant further proposes to install an automatic custody transfer system to handle said commingled production.

(7) That the previous use of automatic sustody transfer equipment, similar to that proposed by the applicant, has shown that such equipment is a reliable and economic means of transferring the sustody of oil, and that the use of such equipment should be permitted, provided adequate safety features are incorporated therein.

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Nearburg & Ingram, be and the same is hereby authorized to dually complete its Midhurst Well No. 1 located in the NW/4 NW/4 of Section 33, Township 12 South, Range 37 East, NNPM, Les County, New Mexico, in such a manner as to permit the production of oil from the Southwest Gladicla-Pennsylvanian Pool and the production of oil from the Southwest Gladicla-Devonian Pool through parallel strings of 2 1/16-inch tubing installed within a string of 5 1/2-inch casing set at total depth.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That the applicant shall take packerleakage tests upon completion and annually thereafter, or as required by the Secretary-Director of the Commission.

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or the protection of correlative rights; upon failure of the applicant to comply with any requirement of this order, the Commission may terminate the authority herein granted and require the applicant or its successors and assigns to limit its activities to regular single-zone production in the interest of conservation. -3-CASE NO. 2134 Order No. R-1837

(2) That the applicant be and the same is hereby authorized to commingle the Southwest Gladiola-Pennsylvanian Pool production with the Southwest Gladiola-Devonian Pool production from all wells presently completed or hereafter drilled on its Midhurst Lease consisting of the NW/4 of said Section 35, after separately metering the production from each pool.

(3) That the applicant be and the same is hereby authorized to install an automatic custody transfer system to handle said commingled production.

PROVIDED HOWEVER, That the applicant shall install adequate facilities to permit the testing of all wells located on the above-described Midhurst Least at least once each month to determine the individual production from each well.

PROVIDED FURTHER, That in order to prevent the overflow and waste of oil in the event the automatic custody transfer system fails to transfer oil to the pipeline, the applicant shall add additional storage facilities from time to time, as it becomes necessary, to store the production which will accrue during the hours that said lease is unattended, or in the alternative, shall either so equip the existing facilities as to automatically shutin the lease production at the wellhead in the event the storage facilities become full, or shall pressure test the flowlines to at least 14 times the shut-in pressure of the wells.

IT IS FUFTHER ORDERED:

That all meters used in the above-described automatic custody transfer system shall be operated and maintained in such a manner as to ensure an accurate measurement of the liquid hydrocarbon production at all times.

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

That 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 "Meyer Test Report."

DONE at Santa Fe, New Mexico, on the day and year herein--4 matad.

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BTATE OF NEW MEXICO

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OIL CONSERVATION COMMISSION

Tester, K.

JOHN NURROUGHE, Chairman renna MORGAN

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L. PORTER, Jr., Member & Secretary



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RSM/esr December 2 BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

CASE NO._

Order No. R-

2134

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

APPLICATION OF NEARBURG & INGRAM APPLICATION OF NEARBURG & INGRAM L'ARAFOR AN OIL-OIL DUAL COMPLETION IN THE Southwest (The ender number PENNSYLVANIAN POOL AND IN THE SOUTHWEST GLADIOLA-DEVONIAN POOL, FOR PERMISSION TO COMMINGLE THE PRO-DUCTION FROM TWO SEPARATE POOLS AND FOR PERMISSION TO INSTALL AN AUTO-MATIC CUSTODY TRANSFER SYSTEM, LEA COUNTY, NEW MEXICO.

OPDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 30, 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.

day of December, 1960, the Commission, NOW, on this a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. _, and being fully advised in the premises, Nutter

FINDS:

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(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

That the applicant, Nearburg & Ingram, is the owner and operator of the Midhurst Well No. 1 located in the NW/4 NW/4 of section 35, Township 12 South, Range 37 East, NMPM, Lea County, New Mexico, and is the owner and operator of the Hidhurst Lease, consisting of the NW/4 of said Section 35.

(3) That the applicant proposes to dually complete the above-described Midhurst Well No. 1 in such a manner as to permit South South Fielder the production of oil from the Pennsylvanian Pool and the production of oil from the Southwest Gladiola-Devonian Pool through parallel strings of 2 1/16-inch tubing installed within a string of 5 1/2-inch casing set at total depth.

-2-CASE No. 2134

(4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
(5) That the applicant further proposes to commingle the Section of the Section with the Southwest Gladiola-Devonian Pool production from all wells presently completed or hereafter drilled on the above-described Midhurst Lease, after separately metering the production from each pool.

(6) That the applicant further proposes to install an automatic custody transfer system to handle said commingled production.

(7) That the previous use of automatic custody transfer equipment, similar to that proposed by the applicant, has shown that such equipment is a reliable and economic means of transferring the custody of oil, and that the use of such equipment should be permitted, provided adequate safety features are incorporated therein.

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

IT IS THEREFORE ORDERED:

(1) That the applicant, Nearburg & Ingram, be and the same is hereby authorized to dually complete its Midhurst Well No. 1 located in the NW/4 NW/4 of Section 35, Township 12 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit the production of oil from the *sector* sector *Sector for the Sector <i>for the sector for the sector <i>for the sector for the sector for the sector <i>f*

<u>PROVIDED HOWEVER</u>, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That the applicant shall take packerleakage tests upon completion and annually thereafter, or as required by the Secretary-Director of the Commission. -3-CASE NO. 2134

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or the protection of correlative rights; upon failure of the applicant to comply with any requirement of this order, the Commission may terminate the authority herein granted and require the applicant or its successors and assigns to limit its activities to regular single-zone production in the interest of conservation.

(2) That the applicant be and the same is hereby authorized to commingle the Pennsylvanian Pool production with the Southwest Gladiola-Devonian Pool production from all wells presently completed or hereafter drilled on its Midhurst Lease consisting of the NW/4 of said Section 35, after separately metering the production from each pool.

(3) That the applicant be and the same is hereby authorized to install an automatic custody transfer system to handle said commingled production.

PROVIDED HOWEVER, That the applicant shall install adequate facilities to permit the testing of all wells located on the abovedescribed Midhurst Lease at least once each month to determine the individual production from each well.

PROVIDED FURTHER, That in order to prevent the overflow and waste of oil in the event the automatic custody transfer system fails to transfer oil to the pipeline, the applicant shall add additional storage facilities from time to time, as it becomes necessary, to store the production which will accrue during the hours that said lease is unattended, or in the alternative, shall the so equip the existing facilities as to automatically shut-in the lease production at the wellhead in the event the storage facilities become full on share the storage facilities become full on the share the factories of at it is function to the share the storage facilities become full on the storage facilies the share the storage facilies the storage facilies the storage facilies the share the storage facilies t

That all meters used in the above-described automatic custody transfer system shall be operated and maintained in such a manner as to onnure an accurate measurement of the liquid hydrocarbon production at all times. -4-CASE No. 2134

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

That 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.