

CASE 1563: Caulkins Oil Co. application  
for oil-gas dual of Breech "A" Well No.  
D-204, 9-26N-6W, Rio Arriba Co.

Case No.

1563

Application, Transcript,  
Small Exhibits, Etc.

BEFORE THE  
OIL CONSERVATION COMMISSION  
DECEMBER 10, 1958

IN THE MATTER OF:

APPLICATION OF CAULKINS OIL COMPANY, CASE 1563

TRANSCRIPT OF HEARING

DEARNLEY - MEIER & ASSOCIATES  
GENERAL LAW REPORTERS  
ALBUQUERQUE NEW MEXICO  
Phone CHapel 3-6691

BEFORE THE  
OIL CONSERVATION COMMISSION  
DECEMBER 10, 1958

IN THE MATTER OF:

Application of Caulkins Oil Company for a dual  
completion. Applicant, in the above-styled  
cause, seeks an order authorizing it to dually  
complete its Breech "A" Well No. D-204, located  
in the SE/4 SE/4 of Section 9, Township 26  
North, Range 6 West, Rio Arriba County, New  
Mexico, in such a manner as to permit the  
production of oil from the South Blanco-Tocito  
Oil Pool and the production of gas from the  
South Blanco-Dakota Gas Pool through parallel  
strings of tubing.

Case 1563

BEFORE:

Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: The next case on the docket will be  
Case 1563.

MR. PAYNE: Case 1563, Application of Caulkins Oil  
Company for a dual completion.

MR. KELLAHIN: Jason Kellahin, of Kellahin and Fox,  
Santa Fe New Mexico, representing the applicant, Caulkins Oil  
Company. We will have one witness, Mr. Frank Gray.

(Witness sworn.)

(Marked Caulkins Oil Company  
Exhibits 1 through 5 for identi-  
fication.)

FRANK GRAY

the witness, having first been duly sworn, testified as follows:

DIRECT EXAMINATION

DEARNLEY - MEIER & ASSOCIATES  
INCORPORATED  
GENERAL LAW REPORTERS  
ALBUQUERQUE - SANTE FE  
3-6691 2-2211

BY MR. KELLAHIN:

Q State your name, please?

A Frank O. Gray.

Q By whom are you employed, Mr. Gray?

A Caulkins Oil Company.

Q In what position?

A Field Superintendent.

Q Where are you located?

A In Farmington, New Mexico.

Q Have you testified before the Oil Conservation Commission as an expert and had your qualifications accepted?

A Yes, sir.

MR. KELLAHIN: Are the witness' qualifications accepted?

MR. NUTTER: They are.

Q (By Mr. Kellahin) Mr. Gray, are you familiar with the application in Case 1563?

A Yes, sir.

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

A To convert the Caulkins D-204, which presently produces through the Dakota sand to a dual Tocito and Dakota producer.

Q Now, referring to what has been marked as Exhibit 1, state what that shows?

A It shows all of the oil and gas wells in the immediate area of the proposed dual completion.

It shows all of the Tocito oil wells in the South Blanco-Tocito pool and also all of the Dakota producers.

Q Does that likewise reflect the lease ownership in the area involved?

A Yes, sir.

Q What other companies have any interest in that area?

A Pubco Petroleum Company owns the southwest of Section 17 and the southeast of Section 15 is owned by Brookhaven Oil Company and Dacresa Corporation. The plat shows the tract being owned by R. E. Mead. Mead's interest extends only through the Pictured Cliffs sand at approximately 3,000 feet, and Dacresa and Brookhaven own the lease rights.

Q Those are the rights which would be involved in this application, is that right?

A Yes.

Q Now, will you describe the well location as shown by that plat, the dual completion well involved here?

A The well is located 760 from the south line and 660 from the east line of Section 9, 26 North, 6 West. That is on Federal Lease Santa Fe 079035, that being in Rio Arriba County; and the working interest and royalty interest on this particular tract is the same as the leases included in the South Blanco-Tocito water flood project.

Q Referring to what has been marked as Exhibit Two, Mr. Gray, would you first describe the present casing program of the subject

5  
well?

A The present casing program consists of 10 3/4 inch casing set at 458 feet, cemented from top to bottom, and 7 inch casing set at 7646 feet and cemented with 600 sacks of cement which, the top of which, according to temperature survey, was 4985.

Q With that type of completion and the cementing program involved here, is there any danger of communication behind the casing between the Dakota and the Tocito in case the application was approved?

A I don't believe there would be any sand. There is a 700 foot interval separating the two sands.

Q Referring to the schematic drawing --

A Excuse me, that is 500 feet.

Q Pardon?

A I wanted to correct that 700. There is 500 feet between the Tocito.

Q Referring to the schematic diagram of proposed Exhibit Two, proposed completion, describe what is to be done.

A Briefly, the diagram shows the arrangement that we would have after making this dual completion. Briefly, the conversion from single to dual completion would be accomplished by first pulling the tubing now in the hole perforating the Tocito sand and setting a Baker Model D Production Packer just below the Tocito perforations. The second step would be to run tubing to

test the Tocito sand and acidize and fracture if necessary. The third operation would be to run three strings of tubing simultaneously. These would consist of 2½ inch, inch and a quarter and inch and a quarter. The two smaller strings being clamped to the 2½ inch.

One string of inch and a quarter would be used for Dakota production; one string of inch and a quarter would be used for extracting production oil with a Byron Jackson lift pump, the 2½ to be produced on production string for the Tocito sand.

A cavity or seating device for the Byron Jackson hyrdomatic lift pump would be run on two and a half inch tubing and set approximately opposite or slightly below the Tocito casing perforations and a mud anchor would be run immediately below the cavity.

Next below the anchor would be run a Baker parallel flow tube, a one and a quarter inch Dakota production string sealed in it, and another one and a quarter inch tubing tail pipe to extend to approximately 7400 feet. The parallel flow tubing would be seated in the Model D Production Packer to lift the Tocito and Dakota Production, and altered mechanically to confine the Dakota production to one and a quarter inch tubing.

A three string tubing head would be installed on the head to separate production of Tocito and Dakota at the surface.

Q What type of piping do you propose to use on the Tocito and Dakota production?

A That would be a Baker Model D Production Packer.



Q Have you had experience with the type of pump that is proposed to be installed here?

A Yes, we've used them for the last three years in pumping production through some of the wells in the South Blanco-Tocito water flood project.

Q On account of that type of pump, it necessitates three strings of tubing, is that right?

A That is right, one string of inch and a quarter tubing is required to pipe oil to the Byron Jackson pump.

Q Do you feel it will be necessary to pump the Tocito formation?

A Yes, I'm sure it will eventually due to the water flooding that is being carried on.

Q In your opinion, is it necessary that the Tocito formation be produced at this point in the pool?

A The economics of the situation certainly favor the production of the oil from this zone at this time, and also it should be operated as a part of the South Blanco-Tocito water flood project.

Q Will a completion of this type enable you to keep better track of the operations of the water flood project?

A I believe it will. It will enable us to know when oil is moved by water injection to this particular spot if it has not been moved that high.

Q Is it practical in your opinion to make a conventional

single well completion in the Tocito at this point?

A From an economic standpoint, it would not. I do not think it would be practical to do it. It would cost approximately \$100,000 to drill a Tocito well. The conversion can be made for about \$45,000.

Q Now, with the type of completion which you propose here would it be possible for you to make such tests as are necessary and required by the Commission of the separate zones?

A Yes, sir. There is no test required at the present time that could not be made on both zones.

Q Will it be possible to make the necessary test determination if there is packer leakage between the two zones?

A Yes, sir, that is possible.

Q And such tests will be made in the operation of the well, is that right?

A We are required by the State of New Mexico to make annual testing on it.

Q With this type of completion, is there any danger of communication between the separate zones?

A There is always a chance that a packer will leak; however, the job, as far as we are concerned, will not be complete until we have a separation. Once having it, there is little chance that a leak would develop, because there is no -- it would not be necessary to move the tubing or alter the down hole equipment in any way whether the hole flowed or was pumped.

Q Now, you say you are going to produce the Dakota through an inch and a quarter tubing, is that right?

A Yes, sir.

Q What would the effect of friction loss on that tubing be on this sized production, Mr. Gray?

A Well, the figures on production of one million feet, which is a little more than the well makes, indicate a friction loss of about 200 pounds.

Q Would there be any friction loss -- would the friction loss be less as the production declines?

A Yes, it would.

Q So, actually, later production than the million cubic feet the friction loss will be lower than the figures you gave?

A It will decrease as the well declines in productivity.

Q Will it be possible to produce the Dakota formation to depletion with that type of completion?

A I think it would be as effective as any other type completion.

Q As far as the Tocito is concerned with the type of completion your are proposing, would it be possible to complete that to depletion?

A Yes.

Q What is Exhibit 3?

A That is an electric log of the well with the formation topped and perforation and the proposed perforations indicated

thereon.

Q Can you place the location of the bridge plug and other installations in the well?

A Well, the effective bridge plug, as far as the Tocito is concerned, is set at 7490, and the Tocito zone at this time is perforated from 7210 to 7280, from 7340 to 7366, and from 7386 to 7440.

Q Now, have the other owners whom you've indicated as being Pubco, Brookhaven and Dacresa been notified of this application?

A Yes.

Q Referring to Exhibits Four and Five, state what they are?

A Exhibit Four is a letter from Pubco Petroleum Company signed by Frank D. Gorham, Vice President. They advise us they have no objection to converting this well into a dual producer. Exhibit Five is a letter from Brookhaven Oil Company and Dacresa Corporation, signed by Thomas B. Scott, President, in which they also state they have no objection to the dual completion.

Q In your opinion, is the proposal which you have submitted in the interest of conservation of oil and gas?

A Yes, sir.

Q Would it result in the prevention of waste?

A I think there is a very good chance that it would.

Q What do you mean by that?

A I mean that by reason of injecting water oil may be

moved to this well and beyond it, and the ultimate recovery of the pool as a whole might be increased if we have an intent to produce this oil in it. The ultimate recovery of the pool as a whole would be affected by operating this well as an oil well just the same as if a new well had been drilled there.

Q Anything you wish to add to that, Mr. Gray?

A Nothing more, except to mention that the well is located on standard spacing pattern for the Tocito Pool, and to repeat that the royalty and working interest is the same as the leases included in the South Blanco-Tocito water flood project, and also that although this well produced only gas on a drill stem test made at the time it was drilled, it might now or in the future produce oil due to water injection. Other wells in the project have changed in that manner. The mechanical preparations to pump the well are proposed as part of the initial dual completion operation, because I feel it is almost certain that sooner or later water that is injected in the injection well will reach that location.

Q You stated on drill stem test it showed gas production there, Mr. Gray; is there a danger of loss of oil by moving oil into an area which had not been oil saturated?

A We cored the Tocito Well. The core analysis indicates it was originally oil saturated.

Q In your opinion would there be any loss of oil as a result of moving oil into a dry sand?

A No, sir.

MR. KELLAHIN: That's all I have.

MR. NUTTER: Any questions from Mr. Gray?

CROSS EXAMINATION BY MR. NUTTER:

Q Mr. Gray, I don't know if the exhibit that -- the schematic diagram you've tacked on the board is the same as that attached to the application or not. It seems when you read the area of perforations in the Dakota they didn't correspond with the perforations indicated on the exhibit here. Perhaps that one is different.

A The way I read them, the first perforation, the top perforations were 7210 to 7280, and that is shown here as Graneros. I'm referring to Graneros and Dakota as one sand. That's the way it has been operated. The second set of perforations was 7340 to 7376. The next set of the perforations 7386 to 7440. Now, that was the way I read them, and on the diagram you have it shows 7340, which was the top of the first set and 7440, which was the bottom of the lower set.

Q Oh, I see. The well has not been perforated in the Tocito, has it?

A No, sir.

Q What will the perforations in the Tocito be, Mr. Gray?

A From 6732 to 4046.

Q Is the production from both of these zones what you might call sweet production?

A Yes, sir.

Q You don't anticipate any particular corrosion problem then?

A There's been more or less a complete absence of corrosion in either the Dakota or Tooto and in our wells.

Q Mr. Gray, I think you mentioned you thought since this well would be affected by the water flood, what are the water injection wells for that area?

A T-134, T-157, T-85, T-87, and just recently T-109.

Q Since you mentioned that this D-204 would probably feel the effect of the water injection program, you thought that it should be treated as one of the water project area wells?

A It should be taken into the project.

Q You are aware that the project area as defined by the Commission does not contain the south half south half of Section 9?

A I believe there are provisions in the order that provide for enlargement in case we drill larger wells or re-complete one, which would be the same as drilling a new one.

Q Is that an administrative procedure for expansion of the project?

A I believe it is. Now, I'm not certain of the order, but I believe that is in there.

MR. NUTTER: Any other questions of Mr. Gray? Mr. Kellabin.

## REDIRECT EXAMINATION

BY MR. KELLAHIN:

Q Mr. Gray, were Exhibits 1 through 3 prepared by you or under your supervision?

A They were prepared under my direction.

Q Exhibits 4 and 5, are they copies of the letters in your files?

A Yes, they are.

Q Would you be willing to make the originals available to the Commission if they requested them?

A Yes, I will.

MR. KELLAHIN: We move for the admission of Caulkins' Exhibits 1 through 5.

MR. NUTTER: Any objection to Caulkins' Exhibits 1 through 5? If not, they will be admitted.

MR. KELLAHIN: That's all we have.

MR. NUTTER: If there is nothing further to be offered in Case 1563, we will take the case under advisement and take Case 1564.

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STATE OF NEW MEXICO }  
COUNTY OF BERNALILLO ) ss

I, JOHN CALVIN BEVELL, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me in Stenotype and reduced to typewritten transcript by me; that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this 17th day of December, 1958, in the City of Albuquerque, County of Bernalillo, State of New Mexico.

*John Calvin Bevell*  
NOTARY PUBLIC

My Commission Expires:  
January 24, 1962

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 1863, heard by me on 12-10, 1958.  
*[Signature]* Examiner  
New Mexico Oil Conservation Commission

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. 1563  
Order No. R-1308

APPLICATION OF CAULKINS OIL COMPANY  
FOR AN ORDER AUTHORIZING AN OIL-GAS  
DUAL COMPLETION IN THE SOUTH BLANCO-  
TOCITO OIL POOL AND THE SOUTH BLANCO-  
DAKOTA GAS POOL IN RIO ARriba COUNTY,  
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on December 10, 1958, 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 17<sup>th</sup> day of December, 1958, 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, Caulkins Oil Company, is the owner and operator of the Breech "A" Well No. D-204, located 760 feet from the South line and 660 feet from the East line of Section 9, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

(3) That the applicant proposes to dually complete the said Breech "A" Well No. D-204 in such a manner as to permit the production of oil from the South Blanco-Tocito Oil Pool and the production of gas from the South Blanco-Dakota Gas Pool through parallel strings of 2½-inch EUE tubing and 1¼-inch tubing respectively.

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

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Case No. 1563  
Order No. R-1308

(5) That approval of the subject application will not cause waste nor impair correlative rights.

(6) That the subject application should be approved.

IT IS THEREFORE ORDERED:

That the applicant, Caulkins Oil Company, be and the same is hereby authorized to dually complete its Breech "A" Well No. D-204, located 760 feet from the South line and 660 feet from the East line of Section 9, Township 26 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit the production of oil from the South Blanco-Tecito Oil Pool and the production of gas from the South Blanco-Dakota Gas Pool through parallel strings of 2 $\frac{1}{2}$ -inch EUE tubing and 1 $\frac{1}{2}$ -inch tubing respectively.

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

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter during the annual deliverability test period for the South Blanco-Dakota Gas Pool.

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 protection of correlative rights; upon failure of applicant to comply with any requirement of this order, after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

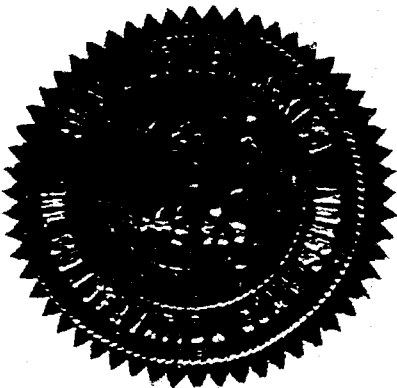
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*E. L. Mechem*  
EDWIN L. MECHEM, Chairman

*Murray E. Morgan*  
MURRAY E. MORGAN, Member

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



CASE 1562: (con't)

special rules and regulations be promulgated to govern the above-described project, which would include among other things conversion of additional injection wells without notice and hearing, transfer of allowables from injection wells, transfer of allowables from wells shut-in for observation purposes or to increase the efficiency of the project, exemption of all leases connected with the project from gas-oil ratio limitation provided gas produced therefrom is reinjected, and such other rules and regulations the Commission may deem appropriate.

CASE 1563:

Application of Caulkins Oil Company for a dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its Breech "A" Well No. D-204, located in the SE/4 SE/4 of Section 9, Township 26 North, Range 6 West, Rio Arriba County, New Mexico, in such a manner as to permit the production of oil from the South Blanco-Tocito Oil Pool and the production of gas from the South Blanco-Dakota Gas Pool through parallel strings of tubing.

CASE 1564:

Application of Great Western Drilling Company for approval of a unit agreement and a pilot water flood project. Applicant, in the above-styled cause, seeks an order approving its proposed North Central Caprock Queen Unit Agreement embracing 2,040 acres, more or less, of state and federal lands in Sections 13, 14, 15, and 24, of Township 13 South, Range 31 East, and Sections 17, 18, and 19, of Township 13 South, Range 32 East. Caprock-Queen Pool, Chaves and Lea Counties, New Mexico, and for authority to institute a pilot water flood project in the Queen formation underlying said unit area.

CASE 1565:

Application of Continental Oil Company for a dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its Warren Unit Well No. 9 located in the SW/4 NW/4 of Section 27, Township 20 South, Range 38 East, Lea County, New Mexico, in such a manner as to permit the production of gas from the Warren-Tubb Gas Pool and oil from the Warren-Drinkard Oil Pool through parallel strings of tubing.

CASE 1566:

Application of Pan American Petroleum Corporation for approval of a unit agreement. Applicant, in the above-styled cause, seeks an order approving its East Saunders Unit Agreement embracing approximately 2,320 acres of state acreage in Township 14 South, Range 34 East, Lea County, New Mexico.

CASE 1567:

Application of Olsen Oils, Inc., for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order establishing a 160-acre non-standard gas proration unit in the Tubb Gas Pool consisting of the N/2 NW/4, SW/4 NW/4 and the NW/4 SW/4 of Section 25, Township 22 South, Range 37 East, Lea County, New Mexico; or in the alternative for a compulsory pooling order pooling all interests within the vertical limits of the Tubb Gas Pool in the NW/4 of said Section 25 as one Tubb Gas Unit and a like order pooling all interests within the vertical limits of the Tubb Gas Pool in the SW/4 of said Section 25 as another Tubb Gas Unit.

DOCKET: EXAMINER HEARING DECEMBER 10, 1958

OIL CONSERVATION COMMISSION 9 a.m., Mabry Hall, State Cap'tol, Santa Fe, New Mexico

The following cases will be heard before Daniel S. Nutter, Examiner:

- CASE 1558: Application of Sunray Mid-Continent Oil Company for permission to commingle the production from two separate oil pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Blinebry Oil Pool and Drinkard Pool on its State Land "15" Lease comprising the S/2 S/2 of Section 16, Township 21 South, Range 37 East, Lea County, New Mexico. Applicant proposes to meter the production from the Blinebry Oil Pool prior to being commingled and to determine Drinkard Pool production by subtracting the metered volume on the total gauged production in the common tank battery.
- CASE 1559: Application of Sunray Mid-Continent Oil Company for an order authorizing a secondary recovery project in San Juan County, New Mexico, and for the promulgation of special rules and regulations in connection with said project. Applicant, in the above-styled cause, seeks an order authorizing it to institute a secondary recovery project in the Bisti-Lower Gallup Oil Pool for the injection of dry gas into the Gallup formation through its Federal "C" Well No. 18, located in the SW/4 NE/4 of Section 7, Township 25 North, Range 12 West, San Juan County, New Mexico. Applicant further proposes that special rules and regulations be promulgated to govern the operation of the above-referenced project, which rules would provide among other things for the conversion of additional injection wells without notice and hearing, the transfer of allowables from injection wells to producing wells, transfer of allowables from wells which have been shut-in for observation or to increase the efficiency of the project, exemption of all leases connected with the project from gas-oil ratio limitation provided gas produced therefrom is reinjected, and such other rules and regulations the Commission may deem appropriate.
- CASE 1560: Application of El Paso Natural Gas Company for a dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its Huerfano Unit Well No. 92 (DG) located in the SW/4 NW/4 of Section 7, Township 26 North, Range 9 West, San Juan County, New Mexico, in such a manner as to permit the production of gas from an undesignated Gallup gas pool and gas from an undesignated Dakota gas pool.
- CASE 1561: Application of Tidewater Oil Company for a dual completion. Applicant, in the above-styled cause, seeks an order authorizing it to dually complete its A. B. Coates "C" Well No. 17, located in the SE/4 NE/4 of Section 24, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Justis-McKee Pool and oil from the Justis-Ellenburger Pool through parallel strings of tubing.
- CASE 1562: Application of British American Oil Producing Company for permission to institute a secondary recovery project in San Juan County, New Mexico, and for the promulgation of special rules and regulations in connection therewith. Applicant, in the above-styled cause, seeks an order authorizing it to institute a secondary recovery project in the Bisti-Lower Gallup Oil Pool for the injection of dry gas and/or liquefied petroleum gas into the Gallup formation through four wells located in Sections 27 and 28, Township 26 North, Range 13 West, San Juan County, New Mexico. Applicant further proposes that

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name <b>South Blanco Dakota</b> <b>South Blanco Tocito</b>		County <b>Rio Arriba</b>	Date <b>November 5, 1958</b>
Operator <b>Caulkins Oil Company</b>		Lease <b>Breech "A"</b>	Well No. <b>D-204</b>
Location of Well <b>P</b>	Unit <b>P</b>	Section <b>9</b>	Township <b>26 North</b>
		Range <b>6 West</b>	

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☐ NO ☒
2. If answer is yes, identify one such instance: Order No. \_\_\_\_\_; Operator, Lease, and Well No.:

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	<b>Tocito</b>	<b>Graneros-Dakota</b>
b. Top and Bottom of Pay Section (Perforations)	<b>6726 to 6746</b>	<b>7210 to 7440</b>
c. Type of production (Oil or Gas)	<b>Oil and Gas</b>	<b>Gas</b>
d. Method of Production (Flowing or Artificial Lift)	<b>Flowing</b>	<b>Flowing</b>

4. The following are attached. (Please mark YES or NO)

- ☒ **Yes** a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforate intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- ☒ **Yes** b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- ☒ **No** c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application. \*
- ☒ **Yes** d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

**Public Petroleum Corp., Post Office Box 1419, Albuquerque, New Mexico**

**Mr. Tom Scott, Post Office Box 376, Scottsdale, Arizona**

**Mr. E. E. Mead 3333 Republic National Bank Building, Dallas, Texas**

**(Mr. Mead's interest in SE 1/4 Section 15, 26N, 6W, is through Pictured Cliffs sand only)**

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☒ NO ☐ . If answer is yes, give date of such notification **November 5, 1958**

CERTIFICATE: I, the undersigned, state that I am the **Field Superintendent** of the **Caulkins Oil Company** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

- \* Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

44  
**PUBCO PETROLEUM CORPORATION**

BOX 1419

ALBUQUERQUE, NEW MEXICO

TELEPHONE CHAPEL 7-8836  
CHAPEL 7-8837

November 6, 1958

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
Appel	EXHIBIT NO. 4
1563	

Caulkins Oil Company  
Post Office Box 967  
Farmington, New Mexico

Gentlemen:

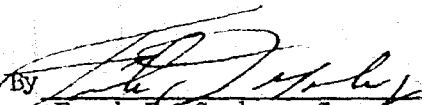
This is to advise that Pubco Petroleum Corporation has no objection to your converting your Breech "A" Well Number D-204, SE $\frac{1}{4}$ SE $\frac{1}{4}$  Section 9, Township 26 North, Range 6 West, Rio Arriba County, New Mexico, from a Dakota producer to a dual Tocito-Dakota producer.

Pubco owns offsetting acreage described as follows:

Township 26 North, Range 6 West  
Section 17: SW $\frac{1}{4}$

Yours very truly,

PUBCO PETROLEUM CORPORATION

By   
Frank D. Gorham, Jr.  
Vice President

FDGjr/j

cc: F. G. Daniell  
Norman E. Maxwell  
James Holdeman

45

# BROOKHAVEN OIL COMPANY

46 EAST 1ST AVE. (PIMA PLAZA)

(MAIL) P. O. BOX 398

SCOTTSDALE, ARIZONA

PHONE WHITNEY 5-0765

TELETYPE SCOTTSDALE, ARIZONA 143

BEFORE EXAMINER NUTTER

OF CONSERVATION COMMISSION

December 3, 1958

App. EXHIBIT NO. 5  
C. N. NO. 1563

Caulkins Oil Company  
P. O. Box 967  
Farmington, New Mexico

Attn: Mr. Frank Gray

Gentlemen:

This is to advise that I have no objection to your converting your Breech "A" Well Number D-204, SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 9, Township 26 North, Range 6 West, Rio Arriba County, New Mexico, from a Dakota producer to a dual Tocito-Dakota producer on condition that the two sands are separated so that the effect of water-flooding the Tocito will not in any way contaminate or affect production from the Dakota.

Being assured that the two sands will be separated, through your letter of November 29, 1958, we approve your converting the Breech "A" Well to a dual completion, as described above.

The undersigned companies have adjoining interests.

Yours very truly,

BROOKHAVEN OIL COMPANY  
DACRESA CORPORATION

*Thos. B. Scott, Jr.*

Thos. B. Scott, Jr.  
President

TBS:lp