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

October 28, 1964

EXAMINER	HEARING

IN THE MATTER OF:

Application of BCO, Inc. for a unit agreement, San Juan and Rio Arriba Counties, New Mexico.

Application of BCO, Inc. for a waterflood project, San Juan and Rio Arriba Counties, New Mexico.

Case No. 3113 &
Case No 3114

BEFORE:

MR. DANIEL S. NUTTER, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: The Hearing will come to order, please.
The first case this morning will be Case 3113.

MR. DURRETT: Application of BCO, Inc. for a unit agreement, San Juan and Rio Arriba Counties, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa Fe, representing the Applicant. We would like to ask at this time that the case be consolidated, for the purposes of testimony, with Case 3114.

MR. NUTTER: We will call Case 3114.

MR. DURRETT: Application of BCO, Inc. for a waterflood project, San Juan and Rio Arriba Counties, New Mexico.

MR. NUTTER: Cases 3113 and 3114 will be consolidated for the testimony.

MR. KELLAHIN: We have two witnesses we would like to have sworn, please. Mr. Bigbee and Mr. Carlson.

(Witnesses sworn.)

H A R R Y R. B I G B E E, having been first duly sworn, was examined and testified as follows:

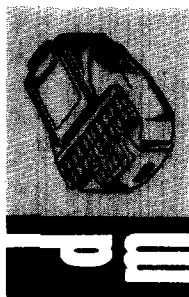
DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A My name is Harry R. Bigbee.

Q What business are you engaged in, Mr. Bigbee?



A I work for BCO, Inc., more like manager.

Q Do you hold an office in BCO, Inc?

A Yes, sir.

Q What is that office?

A Vice-President.

Q In connection with your position as Vice-President of BCO, Inc., have you had anything to do with the formation of a proposed unit for an Escrito Gallup Oil Pool?

A Yes.

Q Are you familiar with the unit agreement that has been proposed in this Application?

A Yes, sir.

(Whereupon, Exhibit Number 1 marked for identification.)

Q I hand you what has been marked as Exhibit Number 1. Would you state what that is?

A That's the Unit Agreement that's been submitted to the United States Geological Survey and the State for this proposed Unit.

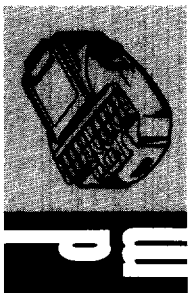
Q Is it pending approval from the United States Geological Survey and State?

A Yes.

Q It has not yet been approved?

A No.

Q Is this Unit Agreement in a form that has heretofore



been approved by this Commission and the United States Geological Survey and the State Land Office?

A I believe it is.

Q Would you say that it is substantially in that form?

A Yes, sir.

Q What areas are proposed to be covered in this unit?

A Basically, it's the west end of the Escrito-Gallup Pool.

Q Would you outline the acreage since it is somewhat different from that stated in the Application in this case?

A The Southeast of Section 12, the East Half of Section 13, both of those in Township 24 North, Range 8 West, the North Half of Section 7, all of Section 18.

Q South Half of Section 7?

A Yes, South Half. All of Section 18, all of Section 17, the East Half of the Northeast Quarter of Section 19, the North Half of Section 20, the Southwest Quarter of Section 16, and the Northwest Quarter of Section 21, all in 21 North, 7 West.

Q Was the acreage deleted from the proposed unit after conferences with the United States Geological Survey?

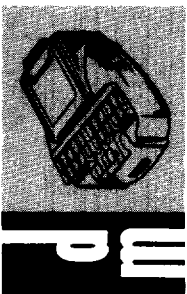
A Yes, sir.

Q Have all of the working interest owners in the proposed area agreed to join the Unit?

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No, sir, they haven't.

Q Could you state what the status of that is?

A We've been negotiating with, or offered to negotiate with Val Reese and Associates, who have an interest in Section 21, and Ray Smith who has a well in Section 13, and so far, it doesn't look favorable on either side.

Q As of the present time, have they indicated that they did not want to join?

A Mr. Jamison who represents Reese and Associates has told me that he does not think he can get his people together and Ray Smith, well, his accountant has told me that they aren't interested in it.

Is there provision in the proposed Unit Agreement for subsequent joinder?

A Yes, sir.

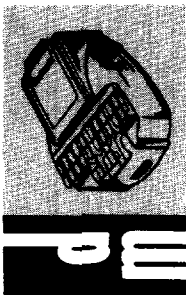
Q And in the event that they elect to join at some later date, there would be provision for such joinder, is that correct?

A Yes.

Q In your opinion, would the proposed Unit Agreement protect the correlative rights of all the parties involved?

A Yes, sir.

Q Is it in the interest of conservation and the production of oil that would not otherwise be recovered?



A I believe so, but I don't know anything about it.

MR. KELLAHIN: At this time I would like to offer in evidence, Exhibit Number 1.

MR. NUTTER: Exhibit 1 will be admitted in evidence.

(Whereupon, Applicant's Exhibit No. 1 was offered and admitted in evidence.)

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

MR. NUTTER: I have a question, please.

CROSS EXAMINATION

BY MR. NUTTER:

Q What acreage are you speaking of now, that is going to be left out of the Unit?

A It's the East Half of Section 13.

Q That would be Tract 15?

A Yes, sir. Also Tract Number 9. That amounts to about nine percent of the Unit.

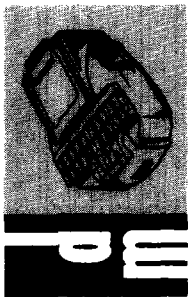
Q Tract 9 in Section 21?

A Yes, sir.

MR. NUTTER: Thank you.

MR. KELLAHIN: Do you have any further questions of this witness?

MR. NUTTER: Are there further questions of the



witness? He may be excused.

(Witness excused.)

MR. KELLAHIN: I call Mr. Carlson, please.

* * *

T H O M A S C. C A R L S O N, having been first duly sworn,
was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A Thomas C. Carlson.

Q By whom are you employed and in what position?

A Employed by Core Laboratories, Inc. in a position
of reservoir engineer in Midland, Texas.

Q Have you ever testified before the Oil Conservation
Commission of New Mexico?

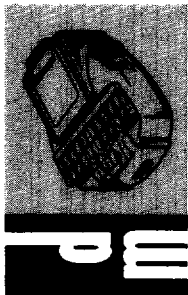
A No, sir.

Q For the benefit of the Examiner, would you briefly
outline your education and experience as a petroleum engineer?

A I'm a graduate petroleum engineer from the University
of Tulsa. I have been practicing for approximately ten years,
and I'm registered in the State of Texas as a professional
engineer.

Q Where have you practiced as a petroleum engineer?

A In Texas and New Mexico.



Q In connection with your work, have you had anything to do with the San Juan Basin area of New Mexico?

A Yes, sir.

Q Have you handled work in the San Juan Basin for Core Laboratories?

A Yes, sir, I have.

MR. KELLAHIN: Are the witness' qualifications acceptable?

MR. NUTTER: Yes, sir.

Q (By Mr. Kellahin) In connection with your work, have you made a study of the Escrito-Gallup Pool?

A Yes, sir. I made a petroleum engineering study of the reservoir.

Q For whom did you made this study?

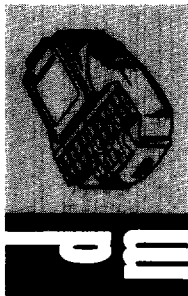
A For BCO, Inc.

Q As a result of that study, did you make any recommendations to BCO, Inc.?

A Yes, sir. I recommended that they form a Unit with the operators approximately in the area that has been proposed here today, and that they institute water injection operations.

Q You did not recommend, as I understand it, that the entire pool be included in the flood, is that correct?

A That was our recommendation, that it be confined



essentially to the northwest area of the field.

Q Would you state briefly your reason for that recommendation?

A Well, principally, it's due to a lithological change in the reservoir itself from northwest to southeast, and due to the difference in the characteristics of the rock and the completion practices of the operators, we felt, and the stage of completion of the reservoir itself, we felt the logical boundary for unitization purposes existed in approximately Sections 21 and 16.

(Whereupon, Exhibits 2 through 11 marked for identification.)

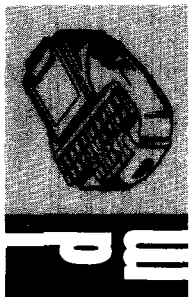
Q Referring to what has been marked as Exhibit Number 2, will you state what that is, please?

A Exhibit Number 2 is a unit area map showing the general area of the Escrito-Gallup Field and that area that has been confined to the proposed unit area.

Q Does it also show insofar as you know, the lease ownership in the area?

A It shows the lease ownership in the area within the developed portion. It also shows schematically the location of the proposed injection wells.

Q They're indicated by the wells with the arrow through them?



A Yes, sir.

Q Subsequent to the filing of the Application in this case, did BCO acquire an interest from the Standard Oil Company, to your knowledge?

A To my knowledge, they did. That has been reported to me by BCO.

Q You have changed the ownership on this plat to reflect that acquisition?

A To the extent of my knowledge of the acquisition, the map has been changed.

Q Insofar as it affects the unit area?

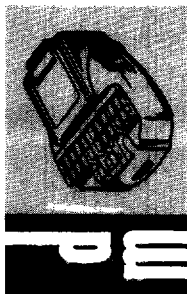
A Insofar as it affects the unit area.

Q Referring to what has been marked as Exhibit Number 3, will you identify that exhibit and discuss it?

A Exhibit Number 3 is a structure map on a marker in the lower Gallup formation in the vicinity and through the area of the proposed unit. This map indicates that the structure of the reservoir has a monocline dipping to the north, northwest about a hundred feet per mile. The reservoir occurs at a depth of approximately 6,000 feet.

Q Referring to what has been marked as Exhibit Number 4, would you identify that exhibit and discuss it?

A Exhibit Number 4 is a net isopachous map of the Marye Zone of the Gallup formation in the unit area. The



definition of net for the purpose of this map is that pay that in our estimation, has permeability of one millidarcy or greater.

Q In connection with the preparation of the proposed Unit agreement, Mr. Carlson, it is proposed that a participation factor based on net pay be used, did you have anything to do with that?

A Yes, sir. We prepared the maps for it and we discussed with the operator the various parameters that might be considered and as a result of that discussion and review of their parameters that would be considered, we agreed and recommended that acre feet be used as the unitization pattern.

Q Did you make the calculations of the acre feet to be allocated to each tract?

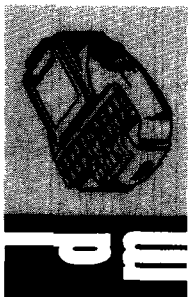
A Yes, sir.

Q Was it based on the net isopach map as shown in Exhibit Number 4?

A Yes, it was.

Q Referring to what has been marked as Exhibit Number 5, would you identify that exhibit and discuss it?

A Exhibit Number 5 is a well status and production summary chart or table of the wells that exist in the unit area of the Escrito-Gallup Pool. I would like to point out one typographical error on the second line of the perforated



interval shown for the BCO Elizabeth Federal Number 3; the present reading is 5663-70. The corrected reading should be 5963-70. This table is a listing for the wells' locations, their completion date, total depth, production casing size and depth setting, perforated interval in the well. The current status of the well in August, 1964, and the cumulative oil produced from each well to September 1st, 1964.

Q As to the current status of the wells, would you say they are in a stage of substantial depletion?

A Yes, sir, they are.

Q And the reservoir is substantially depleted at this time on primary recovery?

A Yes.

Q Is it your recommendation the, that secondary recovery be instituted?

A Yes.

Q Referring to what has been marked as Exhibit Number 6, would you please identify that exhibit?

A Exhibit Number 6 is a summary of reservoir properties of the unit area Escrito-Gallup Pool. From this table it can be seen that the original conditions of the reservoir indicated that a pressure of 1842 psig and a temperature of 155 degrees Fahrenheit. The oil was saturated at initial pressure with a volume factor of 1.349 and viscosity of 0.53 cp. The initial



solution gas-oil ratio was approximately 687. We've estimated the porosity in the unit area is approximately 12.7 percent. The average water saturation, approximately 25 percent, the estimated capacity, average capacity of the wells, approximately 276 millidarcy feet. From this data, we have established this data and isopach maps previously submitted, we have determined the net reservoir volume to be approximately 10,069.7 acre feet. From the average properties of the rock and the properties of the oil, we estimate the oil initially in place to be 5,516,000 barrels. The maximum oil-producing rate occurred during the month of April, 1961, at a rate of 1512 barrels per day, an average rate, the current oil-producing rate in August, 1962 was approximately 84.2 barrels per day, the reservoir pressure in May, 1964 was estimated to be 470 psig from both sonic and bottom hole pressure measurements.

Current gas-oil ratio is approximately 8,096 cubic feet per barrel. Water-oil ratio during August was zero, no water was reported. The cumulative oil produced to September 1st, 1964 was 721,729 barrels from 19 wells.

MR. NUTTER: All these figures are for the unit area?

A Yes, sir, they apply to the unit area.

Q (By Mr. Kellahin) The current producing rate, what would that average per well, approximately?

A Four to five barrels per well.

Q That fact, coupled with the reservoir pressure and other conditions, again, does that indicate that this reservoir is at a stage of substantial depletion?

A It's at a stage of pressure depletion.

Q Now, referring to what has been marked as Exhibit Number 7, would you identify that exhibit and discuss it?

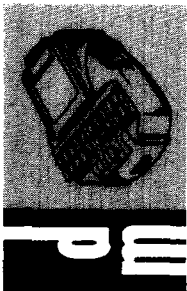
A Exhibit Number 7 is a production history of the unit area Escrito Gallup Pool, indicating the number of wells, the oil produced in each consecutive month, all water and gas produced in each consecutive month from September, 1957 to August, 1964. It indicates cumulative oil produced, total to September 1st, 1964, of 721,729 barrels, 254 barrels of water reported and 1,900,606,000 cubic feet of gas.

Q Referring to what has been marked as Exhibit Number 8, would you state what that is?

A This is a production history chart of the unit area, indicating the monthly production versus time of oil, and it indicates the severe decline in production since 1961, indicating that the primary life is essentially completed.

Q Now, referring to Exhibits 9, 10 and 11, would you identify those and discuss them, please?

A 9, 10, and 11 are schematic diagrams of the proposed water injection wells. They are the Nancy Federal Number 1,



the Elizabeth Federal Number 1, the Judy Federal Number 1, all operated by BCO, Inc. This indicates, these schematics indicate the piping, production string, tubing and packer setting, and the perforated interval of the injection wells.

Q Do you plan any treatment of the well bore prior to the injection of water?

A We have discussed, although we haven't completed the engineering design, a stimulation treatment using solvents to precede the water, the injected water. This is to be considered a stimulation treatment rather than a displacement process.

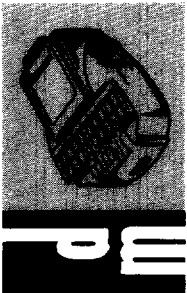
Q In other words, it will be a treatment of the interface of the well bore for the purpose of increasing injectivity, is that the purpose of it?

A Right.

Q Mr. Carlson, what plan of injection do you propose BCO follow in instituting secondary recovery in this field, briefly?

A I propose that they inject water from their water supply well through a suitable plant into the three wells indicated on the last three exhibits at a pressure not to exceed two thousand pounds and a maximum rate capacity of the well.

Q And you are not recommending a periphery flood?



A No, sir, this is an internal injection plan.

Q Is that because of the nature of the reservoir?

A It has definitely to do with the nature of the reservoir and the configuration of the wells.

Q What is the source of the water to be used?

A The water to be used in this project is produced from a fresh water sand at approximately 1900 feet and they have completed a well for this purpose.

Q Would you give the location of the well, please?

A It's in the Northeast Quarter of Section 18, 24 North, 7 West, although I don't have the exact dimension. It's in the vicinity of No. 1 Elizabeth Federal.

Q In your opinion, is there a sufficient supply of water available for the purpose of carrying out the flood proposed?

A Production tests to date indicate that there is.

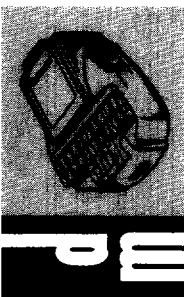
Q Is it fresh water or salt water?

A Fresh water.

Q Do you have an analysis?

A I have a contaminated analysis, but at the present time we're performing an analysis that was taken from the well this last Thursday. We'll be happy to furnish that analysis to the Commission.

Q Would you also furnish a copy of it to the office of



the State Engineer?

A Yes, sir.

Q In connection with the proposed waterflood and unit agreement, in your opinion, will the area that is proposed to be unitized give effective control over the waterflood performance?

A Yes, sir.

Q Were Exhibits 2 through 11 prepared by you or under your supervision?

A Yes, sir, they were.

MR. KELLAHIN: At this time, I would like to offer in evidence, Exhibits 2 through 11 inclusive.

MR. NUTTER: Applicant's Exhibits 2 through 11 will be admitted into the record.

(Whereupon, Exhibits 2 through 11 offered and admitted in evidence.)

MR. KELLAHIN: That's all I have.

CROSS EXAMINATION

BY MR. NUTTER:

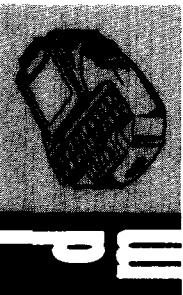
Q You estimate that in the unit area there was originally five and a half million barrels of oil in place. What percent of the original oil in place has been recovered to date?

A I haven't calculated the exact number, but it's 12 or 13 percent. If I could dig out my slide rule, I could get

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you the number.

Q The cumulative production to date is a little over 700,000?

A Yes.

Q Do you have any estimates on what will be recovered as a result of the water injection program?

A We estimate that approximately 780,000 barrels will be restored.

Q 78?

A 780,000.

Q A little better than primary?

A Slightly. This would be remaining primary plus secondary.

Q And the tract participation under the unit agreement is based on one parameter, that's the net sand thickness under each tract, is that right?

A Yes, sir, one hundred percent acre feet.

Q That's taken from your isopach map, your exhibit 4?

A Yes, sir.

Q Is it your thought, Mr. Carlson, that as time goes on, additional wells will be converted to water injection or do you believe that these three initial wells will effectively flood the area?

A If they're able to take the water that we anticipate at the rate that we anticipate, I feel that these wells will be sufficient.

Q Have any tests been made or any calculations been made as to what the rate of injection will be? I note that you mentioned that you would inject at the capacity of the well.

A We've estimated on the basis of rock properties that approximately a thousand barrels a day would be injected in each well. We realize, of course, that as time goes on, this number could be reduced.

Q And your anticipated maximum pressure would be 2,000?

A Yes, sir.

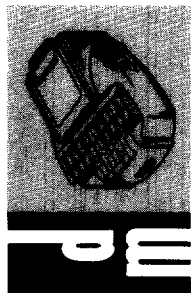
Q And injection in each of the three wells will be through tubing which will be set on a packer, is that correct?

A That's my understanding of the operator's plan, and that would be our recommendation.

Q Do you know whether any plastic coating will be used in that tubing or not?

A We haven't made a recommendation in that regard to the operator pending the results of our water analysis.

Q You do propose to use fresh water, however, is that right?



A Yes, sir. The water is essentially fresh.

Q And later on you would be recycling produced water, is that right?

A Well, I don't know the answer to that right now. I would think that if it were recycled that it would be separated and handled separately from the storage water, the fresh water.

Q I notice that the one well, the Nancy Federal Number 1, has two perforated intervals, the others have only the one perforated interval. Is that Nancy Federal Number 1 completed in a zone other than the Marye Zone of the Gallup?

A The Nancy Federal Number 1 is completed; I failed to pass out logs of each of the injection wells.

(Whereupon, Exhibits Number 12, 13 & 14 were marked for identification.)

A The Nancy Number 1 is completed in what is known locally as the Marye Zone, plus a small lens that occurs just below the Marye Zone. In most of the wells that exhibits very little or no productivity where it's been cored. The practice of the operators in this end of the field has been to confine their perforations to the Marye Zone and this lens that occurs just below it. However, this is the only injection well that has been perforated in that lower zone.

Q It's the only one of the injection wells?

A Yes.

Q I wonder if either of the wells, particularly the producing wells, have been perforated in that zone, do you know?

A Yes, some of them have.

MR. NUTTER: Are there any other questions of this witness?

MR. IRBY: Yes.

CROSS EXAMINATION

BY MR. IRBY:

Q I would like to ask the witness what he proposes to do with the proposed water if he doesn't reinject it.

A Well, it would certainly be disposed of by the operator in a manner commensurate with the wishes of the regulatory bodies. I would assume, though, if the economics would justify a return system that the water would be brought back to one of the injection wells or to one or more of the injection wells, or it may be used to expand the operations to additional injection wells. We haven't really made a thorough analysis of that point.

Q The approval you seek here would require you to come in for administrative approval for each additional well that's put on?

A Yes.

MR. KELLAHIN: That's right.

Q (By Mr. Irby) And that is in addition to these three?

A Yes.

Q The point that's disturbing me is how are we going to know when you start making water and what you do with it and what the analysis of it is.

MR. PORTER: Is there any fresh water in the area?

MR. KELLAHIN: We have a fresh water well there.

A Surface water, you mean?

MR. PORTER: No, any underground water.

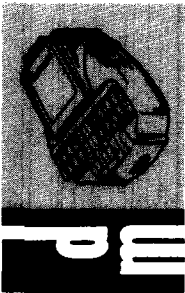
A Yes, the source for injection is an underground sand.

MR. PORTER: I see.

MR. KELLAHIN: Under the normal procedure on salt water disposal, don't you have a form that requires the reporting of the amounts produced?

MR. NUTTER: The monthly injection reports on this waterflood would show the amounts produced. The disposition of the water would not be shown, but that could be ascertained.

MR. KELLAHIN: It is my suggestion that you could determine that a volume of water sufficient to cause concern was being produced, at which time you can inquire as to what was being done. Of course, that report, I understand, does not go to the State Engineer's Office and he would have to



rely on the Oil Conservation Commission for notice.

MR. IRBY: Would your client be agreeable to notifying our office when they start making water, what the analysis is and what they propose to do with it?

MR. KELLAHIN: He would.

MR. IRBY: I think that would expedite it and save both of us trouble.

MR. KELLAHIN: You will do that, will you not, Mr. Bigbee?

MR. BIGBEE: Yes, sir.

MR. IRBY: Thank you.

MR. NUTTER: Do you have any further questions, Mr. Irby?

MR. IRBY: No further questions.

MR. NUTTER: Are there any further questions of Mr. Carlson?

If not, the witness may be excused.

(Witness excused.)

MR. KELLAHIN: We would like to offer at this time Exhibits 12, 13 and 14 into evidence.

MR. NUTTER: Applicant's Exhibits 12, 13, and 14 will be admitted into evidence.

(Whereupon, Exhibits 12, 13, & 14 were offered and admitted into evidence.)

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MR. KELLAHIN: I would like to state, as brought out by the first witness, that the proposed form of agreement has been submitted to the United States Geological Survey and State Land Commissioner. There may be minor changes prior to it's final okays and, of course, a conformed copy will be filed with the Commission at that time.

MR. NUTTER: Does anyone have anything they wish to offer in Cases 3113 or 3114. We will take the cases under advisement.

* * *

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

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

Witness my Hand and Seal this 11th day of November, 1964.

Ada Dearnley
NOTARY PUBLIC

My Commission Expires:
June 19, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 3113-3114 heard by me on 10/28, 1964.

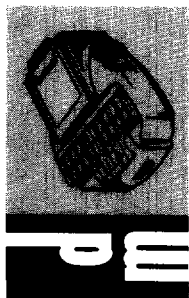
James, Examiner
Oil Conservation Commission

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E X H I B I T S

<u>Number</u>	<u>Marked for Identification</u>	<u>Offered</u>	<u>Admitted</u>
1	3	6	6
2-11	9	17	17
12,13,14	20	23	23



NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARING

SANTA FE, NEW MEXICO

REGISTERHEARING DATE OCTOBER 28, 1964 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
Marshall Smith	Statehouse Reporting	Santa Fe
J. O. Carlson	BCO, Inc	Midland, Texas
Levin Jensen	Ref. & Research Inc	Albuquerque
W. C. Fleinman	Service & Sales	Roswell
M. P. Jones	Independent	Albuquerque
Jason Kullback	Kullback & Fox	Santa Fe
Arthur B. Smith	U.S.A.S.	Farmington
W. H. N. L. V. A. B. H.	U.S.A.S.	Farmington
Ralph L. Gray	U.S.A.S.	Artesia
Charles S. Jones	U.S.A.S.	Santa Fe
Walter D. Noland	Southern Union Prod Co.	Farmington
G. M. ANDRESEN	TEXSTAR Petroleum Co.	SAN ANTONIO, TEXAS
H. L. Porter	C.C.C.	Santa Fe
James Perkins	Kum & Sons, Inc.	Alb.
Phil Thompson	Atlantic Ref. Co.	Roswell
Frank S. Piny	Standard Oil	Santa Fe
B. V. Vanderhice	Southern Union Prod Co.	Farmington

NEW MEXICO OIL CONSERVATION COMMISSION

EXAMINER HEARINGSANTA FE, NEW MEXICOREGISTERHEARING DATE OCTOBER 28, 1964 TIME: 9 A.M.

NAME:	REPRESENTING:	LOCATION:
Mr. Carroll Station	Continental States Prod. Co.	Arlene, Texas
Jack R. McGraw	Coastal States Gas	Abilene, Texas
W. M. Sargent, Jr.	Cabot Corp	Pampa, Texas
J. H. Howard	Big 6 Drilling Co.	Houston, Tex
J. W. Ochsner	Lone Star Producing Co	MIDLAND, TEX
C. K. Mott	Geo. W. Strake	Midland, Texas
John E. Davis	G. W. Strake	Midland, Texas
Sim B. Christy IV	Hinkle, Bondurant & Christy	Roswell, NM
Ronald McWilliams	Continental Oil Co	Hobbs, N.M.

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

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
September 30, 1964

EXAMINER HEARING

IN THE MATTER OF: Application of BCO, Inc. for
a unit agreement, San Juan and Rio Arriba
Counties, New Mexico.

and

Application of BCO, Inc. for a water-
flood project, San Juan and Rio Arriba
Counties, New Mexico.

Case No. 3113

&

Case No. 3114

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: We will call Case 3113.

MR. DURRETT: Application of BCO, Inc. for a unit agreement, San Juan and Rio Arriba Counties, New Mexico.

MR. KELLAHIN: Jason Kellahin. I would like to request on behalf of BCO that Case 3113 and 3114 both be continued to the last Examiner Hearing in October.

MR. UTZ: Cases 3113 and 3114 will be continued to the October 28th Examiner Hearing.

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

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

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 5th day of October, 1964.

Ada Dearnley
Notary Public - Court Reporter

My Commission Expires:
June 19, 1967

I do hereby certify that the foregoing is a correct record of the proceedings before the Examiner at Santa Fe, New Mexico, on October 5, 1964.

3113 & 3114

Sept. 30 '64
Theresa W. [Signature]

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