

CASE 3707: Application of WILLIAM
B. BARNHILL for a dual completion,
Lea County, New Mexico.

Case No.

3707

Application, Transcript,
Small Exhibits, Etc.

GOVERNOR
DAVID F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

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

P. O. BOX 2088
SANTA FE

January 16, 1968

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 3707
Order No. R-3365

Applicant:

William B. Barnhill

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 3707
Order No. R-3365

APPLICATION OF WILLIAM B. BARNHILL
FOR A DUAL COMPLETION, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 10, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 16th day of January, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, William B. Barnhill, seeks authority to complete his Keohane Well No. 1, located in Unit N of Section 6, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Skaggs-Grayburg Pool and an undesignated Blinbry pool through parallel strings of 2 1/16-inch tubing, with separation of zones by a packer set at approximately 4195 feet.

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

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

-2-

Case No. 3707
Order No. R-3365

IT IS THEREFORE ORDERED:

(1) That the applicant, William B. Barnhill, is hereby authorized to complete his Keohane Well No. 1, located in Unit N of Section 6, Township 20 South, Range 38 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Skaggs-Grayburg Pool and an undesignated Blinebry pool through parallel strings of 2 1/16-inch tubing, with separation of zones by a packer set at approximately 4195 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

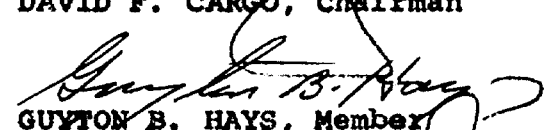
PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Blinebry zone of the dual completion.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

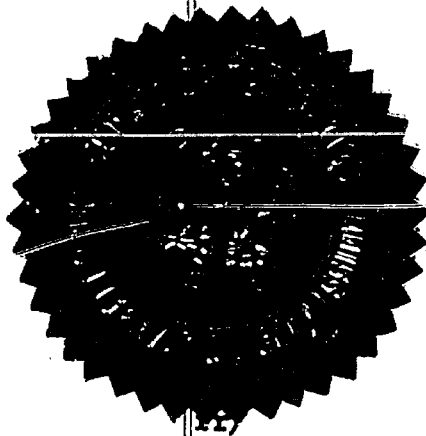
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


GUYTON B. HAYS, Member


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



Case 3707

Heard 1-10-68

Rec. 1-15-68.

Grant William B. Barnhill's request for
the dual completion of his. Kochans #1
N-6-20 S-38 E on the Skaggs. Grayson
and. Blenby under. oil zone.
Two strings of 2 1/2 tubing will be set.
a packer will be set at approx
4195

Thos. L. R.

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Case 3701

Operator Wm. Barnhill		County Lea	Date Dec. 5, 1967
Address Box 1354, Roswell, N.M. 88201		Lease Keohane	Well No. 1
Location of Well	Unit N	Section 6	Township 20-S
			Range 38-E

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

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Skaggs-Grayburg		Blinbry-Wildcat
b. Top and Bottom of Pay Section (Perforations)	3944-4065		5811-6053
c. Type of production (Oil or Gas)	Oil		Oil
d. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift

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

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated 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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.

Sunset International Pet. Corp. - Suite 308, 201 Wall Bldg., Midland, Texas 79701

Continental Oil Co. - Box 431, Midland, Texas 79701

Cities Service Oil Co. (DEPCO) - 800 Vaughn Bldg, Midland, Texas 79701

Apco Oil Corp. - 1000 Liberty Bank Bldg, Oklahoma City, Okla.

MAIN OFFICE OCC

Southern Union Gas Co. - Fidelity Union Tower, Dallas, Texas

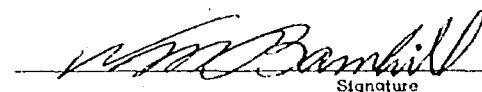
N. E. Salsich - 411 N. Loraine, Midland, Texas

'67 DEC 6 AM 8 37

Texaco Inc. - Box 3109, Midland, Texas

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **Dec. 5, 1967**.

CERTIFICATE: I, the undersigned, state that I am the **Exploration Manager** of the **Wm. Barnhill** (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.

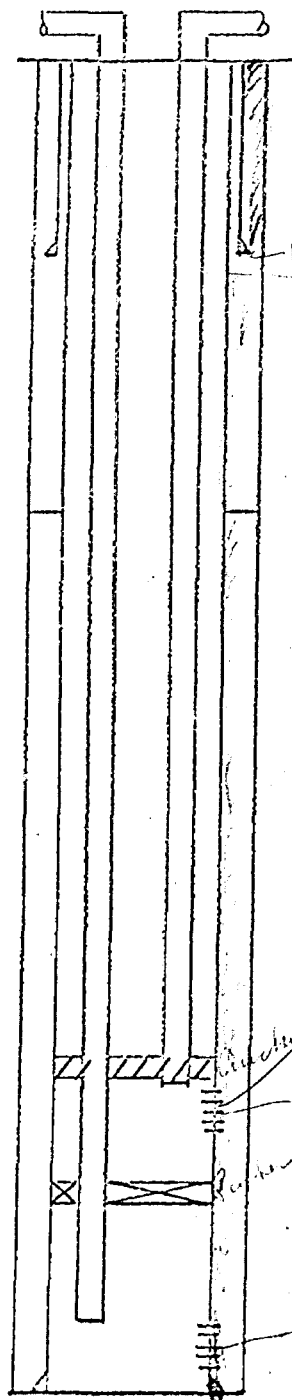
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DIAGRAMMATIC SKETCH OF THE MULTIPLE COMPLETION

Wm. Barnhill - #1 Keohane

Can 3107

Blinebry Grayburg



8-5/8" casing @ 1530' w/1000 sx (Cmt circ to surf)

5-1/2" casing @ 7089' w/1000 sx (Top of cmt @ 1600')

Top of cement @ 1600'

2-1/16" tubing set @ 3890' (Grayburg)

Guiberson Tubing Anchor set @ 3890'

Grayburg perfs @ 3940-4065

Guiberson RMC-1 Casing Packer set @ 4195'

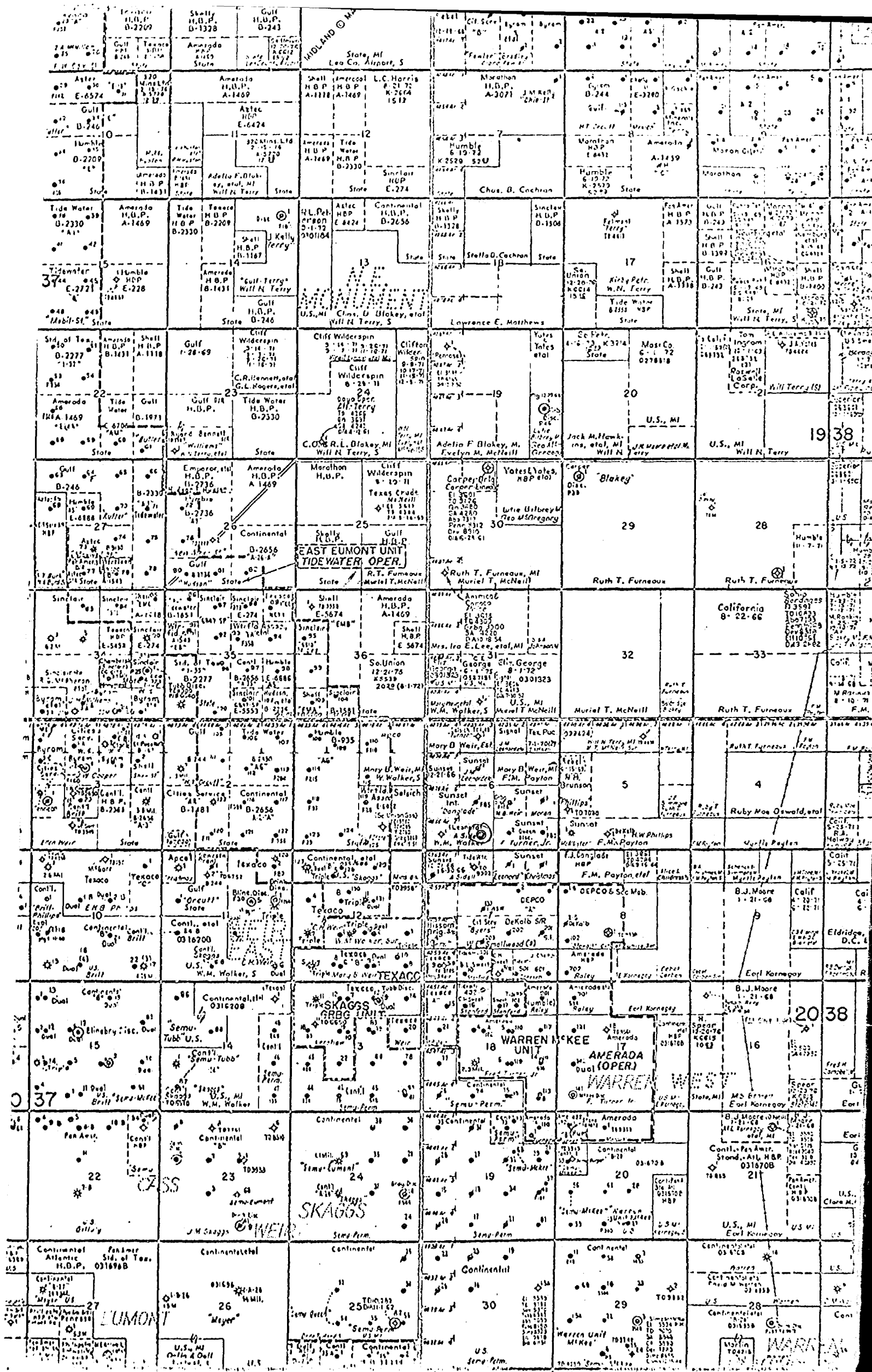
2-1/16" tubing set @ 5800' (Blinebry)

Blinebry perfs @ 5811-6053

PBTD @ 6750'


TD @ 7450' Dolomite

Note: Centralizers were set on 60' spacing @ 6700-3800




No. 083863

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO <i>Office Services</i>		POSTMARK OR DATE 
STREET AND NO. <i>Box 431</i>		
P. O., STATE, AND ZIP CODE <i>Middle Tenn 37101</i>		
EXTRA SERVICES FOR ADDITIONAL FEES		
Return Receipt Shows to whom and date delivered <input type="checkbox"/> 10¢ fee	Shows to whom, date, and where delivered <input type="checkbox"/> 35¢ fee	Deliver to Addressee Only <input type="checkbox"/> 50¢ fee
POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)		


No. 083865

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO <i>Tifco Inc.</i>		POSTMARK OR DATE 
STREET AND NO. <i>Box 3129</i>		
P. O., STATE, AND ZIP CODE <i>Middle Tenn 37101</i>		
EXTRA SERVICES FOR ADDITIONAL FEES		
Return Receipt Shows to whom and date delivered <input type="checkbox"/> 10¢ fee	Shows to whom, date, and where delivered <input type="checkbox"/> 35¢ fee	Deliver to Addressee Only <input type="checkbox"/> 50¢ fee
POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)		


No. 083869

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO <i>Continental Oil</i>		POSTMARK OR DATE 
STREET AND NO. <i>Box 431</i>		
P. O., STATE, AND ZIP CODE <i>Middle Tenn 37101</i>		
EXTRA SERVICES FOR ADDITIONAL FEES		
Return Receipt Shows to whom and date delivered <input type="checkbox"/> 10¢ fee	Shows to whom, date, and where delivered <input type="checkbox"/> 35¢ fee	Deliver to Addressee Only <input type="checkbox"/> 50¢ fee
POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)		

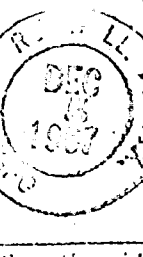
No. 083866

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO <i>M. E. Salsich</i>		POSTMARK OR DATE 
STREET AND NO. <i>111 N. Lawrence</i>		
P. O., STATE, AND ZIP CODE <i>Middle Tenn 37101</i>		
EXTRA SERVICES FOR ADDITIONAL FEES		
Return Receipt Shows to whom and date delivered <input type="checkbox"/> 10¢ fee	Shows to whom, date, and where delivered <input type="checkbox"/> 35¢ fee	Deliver to Addressee Only <input type="checkbox"/> 50¢ fee
POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)		


No. 083867

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO <i>Arco Oil Corp</i>		POSTMARK OR DATE 
STREET AND NO. <i>1000 Liberty Street</i>		
P. O., STATE, AND ZIP CODE <i>Okla City Okla 73102</i>		
EXTRA SERVICES FOR ADDITIONAL FEES		
Return Receipt Shows to whom and date delivered <input type="checkbox"/> 10¢ fee	Shows to whom, date, and where delivered <input type="checkbox"/> 35¢ fee	Deliver to Addressee Only <input type="checkbox"/> 50¢ fee
POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)		

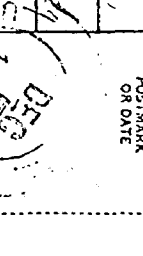
No. 083864

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO <i>Arthur H. Brown Co</i>		POSTMARK OR DATE 
STREET AND NO. <i>111 N. Lawrence</i>		
P. O., STATE, AND ZIP CODE <i>Middle Tenn 37101</i>		
EXTRA SERVICES FOR ADDITIONAL FEES		
Return Receipt Shows to whom and date delivered <input type="checkbox"/> 10¢ fee	Shows to whom, date, and where delivered <input type="checkbox"/> 35¢ fee	Deliver to Addressee Only <input type="checkbox"/> 50¢ fee
POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)		

No. 083870

RECEIPT FOR CERTIFIED MAIL—30¢

SENT TO <i>Street & Belmont</i>		POSTMARK OR DATE 
STREET AND NO. <i>Box 308 - 201 West 8th</i>		
P. O., STATE, AND ZIP CODE <i>Middle Tenn 37101</i>		
EXTRA SERVICES FOR ADDITIONAL FEES		
Return Receipt Shows to whom and date delivered <input type="checkbox"/> 10¢ fee	Shows to whom, date, and where delivered <input type="checkbox"/> 35¢ fee	Deliver to Addressee Only <input type="checkbox"/> 50¢ fee
POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)		

Case 3707

OIL CONSERVATION COMMISSION
I DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE Dec. 13, 1967

Re: Proposed NSP _____
Proposed Triple _____
Proposed NSL _____
Proposed NFO _____
Proposed DC X

Gentlemen:

I have examined the application dated 12/6/67
for the Wm. Barnhill Keohane #1-N 6-20-38
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---E.F.E.
O.K.---J.W.R.

Yours very truly,

Don E. Huch

MAIN OFFICE 000

'67 DEC 14 AM 8 35

P. O. BOX 1354
233 PETROLEUM BLDG.

TELEPHONES: AREA CODE 505
OFFICE 622-0540
RES. 622-0438

Wm. B. Barnhill
OIL & GAS PROPERTIES
ROSWELL, NEW MEXICO 88201
December 5, 1967

2/1/68
3707
MAIN OFFICE OCC

'67 DEC 6 AM 8 37

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

Gentlemen:

Enclosed please find a copy of Form O-107 "Application for Multiple Completion", which is being supplied as per request of the Oil Conservation Commission.

Should you desire any additional information regarding this matter, please let me hear from you at your earliest convenience.

Yours very truly,

Wm. B. Barnhill
Wm. B. Barnhill

WBB:rm
Enc.

DOCKET MAILED

Date 12-28-67

Docket No. 1-68

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 10, 1968

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

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

CASE 3690: (Continued from the November 29, 1967, Examiner Hearing)

Application of Roger C. Hanks, Ltd., for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Bar-U Pennsylvanian Pool, Lea County, New Mexico, including a provision for 160-acre spacing units and the establishment of 80-acre allowables for said 160-acre units.

CASE 3707:

Application of William B. Barnhill for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of his Keohane Well No. 1 located in Unit N of Section 6, Township 20 South, Range 38 East, Lea County, New Mexico, to produce oil from the Skaggs-Grayburg and undesignated Blinbry pool through parallel strings of tubing.

CASE 3708:

Application of BTA Oil Producers for special area rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for that area of Lea County, New Mexico, including the Vada-Pennsylvanian, Lane-Pennsylvanian, and a portion of the Middle Lane-Pennsylvanian Pools, and described as follows:

TOWNSHIP 9 SOUTH, RANGE 33 EAST
Section 36: All

TOWNSHIP 9 SOUTH, RANGE 34 EAST
Sections 15 through 22, and 27 through 33: All

TOWNSHIP 10 SOUTH, RANGE 33 EAST
Sections 1, 2, 3, 10, 11 and 12: All
N/2 Section 13;
N/2 Section 14;
N/2 Section 15;

TOWNSHIP 10 SOUTH, RANGE 34 EAST
Sections 4 through 9: All
N/2 Section 16;
N/2 Section 17;
N/2 Section 18;

Applicant proposes the adoption of 160-acre proration units for the above-described area, or within one mile thereof, for the Bough "C" zone of the Pennsylvanian formation with each proration unit to be assigned an 80-acre proportional factor of 4.77 for allowable purposes.

Applicant proposes that the rules presently contained in Commission

Order No. R-3179-A, Temporary Rules, Vada-Pennsylvanian Pool, be adopted and made permanent for the above-described area or, in the alternative, that the above-described land be deleted from the Lane-Pennsylvanian and Middle-Lane Pennsylvanian Pools and the Vada-Pennsylvanian Pool be extended to include said lands therein.

CASE 3246: (Reopened)

In the matter of Case No. 3246 being reopened pursuant to the provisions of Order No. R-2935-A, which order extended special pool rules for the Mesa Queen Pool, Lea and Eddy Counties, New Mexico. All interested parties may appear and show cause why the gas-liquid ratio limitation of 5,000 cubic feet of gas per barrel of liquid hydrocarbons should not be reduced and why the special rules and regulations should not be discontinued.

CASE 3709: Application of Kerr-McGee Corporation for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause seeks the promulgation of special pool rules for the Akah Nez-Devonian Oil Pool, San Juan County, New Mexico, including a provision for 80-acre oil proration units.

CASE 3252 (Reopened)

In the matter of Case No. 3252 being reopened pursuant to the provisions of Order No. R-2917-A, which order extended 640-acre spacing units for the McMillan-Morrow Gas Pool, Eddy County, New Mexico, for a period of 18 months. All interested parties may appear and show cause why said pool should not be developed on 320-acre spacing units.

dearnley-meier reporting service, inc.

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

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



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 10, 1968

EXAMINER HEARING

-----)
IN THE MATTER OF:)

Application of William B.)
Barnhill for a dual)
completion, Lea County,)
New Mexico.)
-----)

Case 3707

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 3707.

MR. HATCH: Application of William B. Barnhill
for a dual completion, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason
Kellahin, Kellahin & Fox, Santa Fe, appearing for the
applicant. We have one witness I would like to have sworn.

MR. UTZ: Are there other appearances in this
case? You may swear the witness.

(Witness sworn.)

(Whereupon Applicant's Exhibits
1 through 3 were marked for
identification.)

WILLIAM BARNHILL

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A William Barnhill.

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

A In the oil and gas business professionally and
consulting geologist.

Q Where are you located?

A Roswell, New Mexico.

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

A No.

Q For the benefit of the Examiner would you outline your education and experience as a geologist?

A In Southeastern New Mexico I have been consulting geologist for the past eleven years. Prior to that in Midland, Texas, Permian Basin, exclusively, and my education is from the University of Texas.

Q Do you have a degree in geology?

A Master's Degree in Geology, University of Texas.

Q What was the date of that?

A 1950.

Q Have you been working as a practicing geologist since that time?

A Yes, I have.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. UTZ: Yes, they are.

Q Mr. Barnhill, are you the applicant in Case Number 3707?

A Yes, I am.

Q Briefly stated, what is proposed in this application?

A We propose to dual complete the Barnhill Number 1 Keohane from the Grayburg and dual it with the Blinbry.

Q Are there any other duals in those two zones in the area involved in this application?

A Not within a mile.

Q Have all the offset operators been notified of your application?

A Yes, they have.

Q Referring to what has been marked as Exhibit Number 1, would you identify that exhibit please?

A That is the application for multiple completion C 107.

Q That was the form you have filed with the Commission, is that correct?

A Yes, that's been filed.

Q Now, referring to what has been marked as Exhibit Number 2, would you identify that exhibit, please?

A That is a diagrammatic sketch of the multiple completion on the Number 1 Keohane showing casing, perforations, packers.

Q Has the well actually been completed as shown in this diagrammatic sketch?

A It's producing right now from the Grayburg

horizon at the present time.

Q But has the dual completion actually been physically made?

A Yes, it has.

Q And packers set?

A Packers set, tubing rods, everything is installed waiting the outcome of this hearing.

Q You have no production from the Blinebry zone, is this correct?

A Only from, by swabbing unit which was just enough to know we had a well from the Blinebry but it has not produced.

Q Now, do you have any pressure information on the two zones involved?

A None as yet. We will have to run, of course, packer tests and GOR later on but we don't have that as yet.

Q As a general proposition, do you anticipate any great pressure differential across the packer, Mr. Barnhill?

A No, I don't. They are low pressure zones.

Q Is there any substantial difference in the characteristics of the fluids of the two zones?

A No, they are very similar, actually.

Q Now, your diagrammatic sketch shows the top of the

cement at sixteen hundred feet. How was that arrived at?

A That was arrived at by temperature survey, Haliburton temperature survey.

Q And then your five and a half inch casing was set with a thousand sacks. Did that circulate?

A No, the five and a half, the top of the cement in the five and a half is at sixteen hundred below the surface.

Q Now, your surface string did circulate, is that correct?

A Yes, the eight and five eighths circulated to the surface with a thousand sacks.

Q Are there any other producing horizons in the interval covered by this well?

A Well, I believe we have a pay zone in the Glorieta horizon, but that has not been opened as yet.

Q Now, that has been cemented off, is that correct?

A Yes.

Q Did you encounter any water in either of these zones?

A No, they are water-free.

Q Now, the type packer you show on the dual completion, is that a permanent type packer?

A Yes.

Q Now, referring to what has been marked as Exhibit Number 3, would you identify that exhibit?

A That's the land plat showing the lease, the location of the well and offset operators.

Q Were Exhibits 1, 2 and 3 prepared by you or under your supervision?

A Yes, they were.

MR. KELLAHIN: At this time, I offer in evidence Exhibits 1, 2 and 3.

MR. UTZ: Without objection, Exhibits 1, 2 and 3 will be entered into the record of this case.

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

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

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Barnhill, your eight and five eighths is circulated at fifteen thirty, then?

A That was circulated to the surface, cement to the surface.

Q And your temperature survey showed the top of the cement on the five and a half at sixteen hundred?

A Yes.

Q Which only leaves seventy feet of open hole without cement?

A That would be correct.

Q And you didn't take any drillstem test or anything on this completion?

A Not in these zones here. We did take a test in the Drinkard for approximately seven thousand feet but it was insignificant.

Q And you haven't run any bottom hole shut-ins?

A No, sir.

Q Have you taken any gravity on the fluids?

A No, we haven't run a gravity.

Q Well, you don't have any test that would tell you whether its's sour, sweet, or crude?

A Oh, yes, it's sour crude.

Q Both of them are sour?

A Yes.

Q You have no GOR information?

A No GOR at this time, no, sir.

Q What do you estimate your pressures at?

A I just don't know, sir, what those would be. They are very low pressure zones from the Grayburg. Now, on the offset production there the gas is actually too small to

measure. They are all pumping wells and the Blinebry horizon, we just know we have a well there but we just don't have any actually concrete facts and data at this time until we put it on production.

Q Will both of these zones flow?

A The Blinebry will flow by heads. It actually is being completed as a pumping well. If it's agitated, it will flow but not --

Q The Grayburg you are pumping?

A Sir?

Q And the Grayburg you are pumping, too?

A Yes.

MR. UTZ: Are there other questions? Witness may be excused.

(Witness excused.)

MR. UTZ: Other statements in this case? Case will be taken under advisement.

STATE OF NEW MEXICO)
) ss
 COUNTY OF BERNALILLO)

I, KAY EMBREE, 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 30th day of January, 1968.

Kay Embree
 Notary Public

My Commission Expires:

November 19, 1971

I do hereby certify that the foregoing is a complete record of the proceedings in the Bernalillo Hearing of Case No. 32-2-2, heard by me on 1-30-68, 1968.
Elizabeth J. [Signature], Secretary
 New Mexico Oil Conservation Commission

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator <u>Wm. Barnhill</u>		County <u>Lea</u>	Date <u>Dec. 5, 1967</u>
Address <u>Box 1354, Roswell, N.M. 88201</u>		Lessee <u>Keohane</u>	Well No. <u>1</u>
Location of Well <u>N</u>	Section <u>6</u>	Township <u>20-S</u>	Range <u>38-E</u>

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

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Skaggs-Grayburg		Blinberry-Wildcat
b. Top and Bottom of Pay Section (Perforations)	3940-4065		5811-6053
c. Type of production (Oil or Gas)	Oil		Oil
d. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift

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

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated 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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.

Sunset International Pet. Corp. - Suite 308, 201 Wall Bldg., Midland, Texas 79701

Continental Oil Co. - Box 431, Midland, Texas 79701

Cities Service Oil Co. (DEPCO) - 800 Vaughn Bldg, Midland, Texas 79701

Apco Oil Corp. - 1000 Liberty Bank Bldg, Oklahoma City, Okla.

Southern Union Gas Co. - Fidelity Union Tower, Dallas, Texas

N. E. Salsich - 411 N. Loraine, Midland, Texas

Texaco Inc. - Box 3109, Midland, Texas

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification Dec. 5, 1967.

CERTIFICATE: I, the undersigned, state that I am the Exploration Manager of the Wm. Barnhill (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 (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.

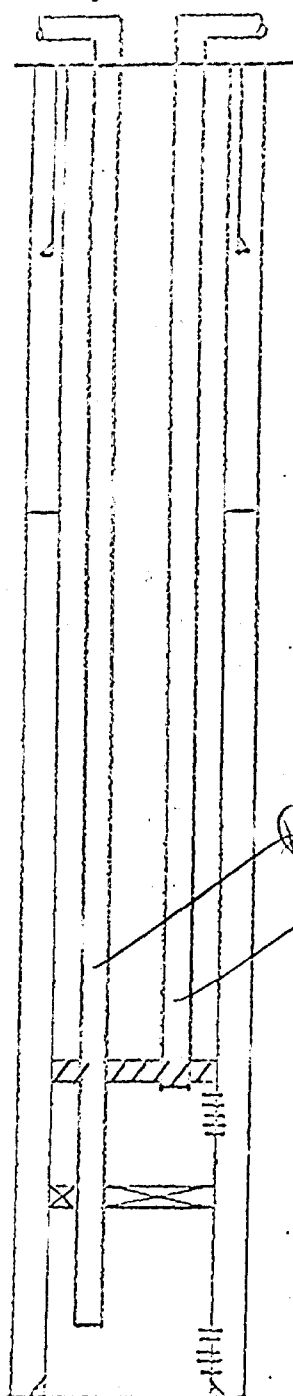
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
Applicant	EXHIBIT NO. <u>1</u>
CASE NO.	<u>2707</u>

DIAGRAMMATIC SKETCH OF THE MULTIPLE COMPLETION

Wm. Barnhill - #1 Keokane

Blinebry Grayburg



8-5/8" casing @ 1530' w/1000 sx (Cmt circ to surf)

5-1/2" casing @ 7089' w/1000 sx (Top of cmt @ 1600')

Top of cement @ 1600'

2-1/16" tubing set @ 3890' (Grayburg)

Guiberson Tubing Anchor set @ 3890'

Grayburg perfs @ 3940-4065

Guiberson RMC-1 Casing Packer set @ 4195'

2-1/16" tubing set @ 5800' (Blinebry)

Blinebry perfs @ 5811-6053

PBTD @ 6750'

TD @ 7450' Dolomite

Note: Centralizers were set on 60' spacing @ 6700-3800

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Applic. EXHIBIT NO. 2

CASE NO. 2707

