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

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Case//o.

Replication, Transcript,

Small Exhibits, Etc.

GOVERNOR DAVID F. CARGO CHAIRMAN

State of New Mexico Gil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MEMBER



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

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 drder 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 Blinebry 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 packerleakage 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

Care 3707 Lead 1-10-68 Rec. 1-15-68. Grant William B. Barnkelle request for Atto deal completion of his. Kockens 4/ N-6-20 S-38 E in the. Shaggs. Fraghy and. Bleneby Judes. ail gottes. Dero ktungs of the tuhing well he set. a packer will be it at opport Thurte. Her

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

Form C-107 5-1-61

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•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 proration 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 3767 Grayburg Blinebry 8-5/8" casing @ 1530' w/1000 sx (Cmt circ to surf) -1600 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

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Case 3707

OIL CONSERVATION COMMISSION ______DISTRICT

OIL CONSERVATION COMMISSION BOX 871	DATE	Dec. 13, 1967
SANTA FE, NEW MEXICO	Re:	Proposed NSP Proposed Triple Proposed NSL Proposed NFO Proposed DC X
Gentlemen:		
I have examined the applicat	on dated 12/6	/67
for the Wm. Barnhill Keohanc #1		
Operator and my recommendations are as fol	•	S-T-R
0.KE.F.E.		
0.KJ.W.R.		

Yours very truly,

Langley hick

MAIN OFFICE OOD

'07 DEC 14 AH 8 35

P. O. BOX 1354 233 PETROLEUM BLOG.

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

Wm. B. Barnhill

DIL & GAS PROPERTIES ROSWELL, NEW MEXICO 88201

December 5, 1967

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 0-107 "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,

WBB:rm Enc.

DOCKET MAILED

Date 12-28-67

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 Blinebry 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 (Reoper.ed)

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.

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

1120 SIMMS BLDG. . P. O. BOX 1092 . PHONE 243-6691 . ALBUGIJERQUE, 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 <u>3707</u>

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 Blinebry.
- 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.
 - Now, that has been cemented off, is that correct?
 - A Yes.
- O Did you encounter any water in either of these zones?
 - A No, they are water-free.
- 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.

And Embrec Motary Public

My Commission Expires:

November 19, 1971

I do horoby earting that the foregroup is a complete reserve of the presentions in the breakfully we been in 32.4.2.

New Fortoo 011 Connorvation Densitation

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

Operator		County		Date			
Wm. Barnhill			Lea		Dec. 5, 1967		
Adaress		Leaso		Well N			
Box 1354, Roswe	11. N.M. 88201	7	Keohane		7		
	oction	Township		Hongo			
of Well . N	6	·	20~S	1	38-3		
1. Has the New Mexico Oil Conservati	on Commission heretofo	re authorize		of a well i			
zones within one mile of the subject					and the second of the second		
2. If answer is yes, identify one such	Instance: Order No.		; Operator Lease, i	and Well N	io.;		
	<u></u>						
3. The following facts are submitted:	Upper		Intermediate		Lower		
	Zone		Zone		Zone		
a. Name of Pool and Formation	Skaggs-Gray	ourg			Blinebry-Wildcat		
b. Top and Bottom of							
Pay Section	3940-4065			1	5811-6053		
(Perforations)							
c. Type of production (Oil cr Gas)							
d. Method of Production	Artificial I	المراجعة الم			Artificial Lift		
(Flowing or Artificial Lift)		1.1.4.6			Wrotifetst Dire		
1. The following are attached. (Please	check YES or NO)						
Yes No							
izers and/or turboliz	ers and location thereof	, quantities	used and top of cement, p	erforated	eters and setting depths, central- intervals, tubing strings, including		
``		•	•		r information as may be pertinent. es, and the names and addresses		
of operators of all les	ases offsetting applican		ise, an onset wens on o	nsee reas	es, and the names and addresses		
Z c. Waivers consenting t	o such multiple comple	tion from ca	ch offset operator, or in li	eu thereof	, evidence that said offset opera-		
	shed copies of the appl						
d. Electrical log of the dicated thereon. (If s	well or other accepted uch log is not available	le log with the at the time	ops and bottoms of produ application is filed it sha	cing zone Il be subn	s and intervals of perforation in- nitted as provided by Rule 112-A.)		
List all offset operators to the lease	on which this well is l	ocated toget	her with their correct mail	ing addres	is.		
Sunset International	Pet. Corp	Suite_3	08, 201 Wall B	ldg.	Midland, Texas 7970		
Continental Oil Co	Box 431, Mid	land, T	exas 79701		•		
Cities Service Oil Co	. (DEPCO) - 8	00 Vaug	<u>hn Bldg, Midla</u>	nd, Te	exas 79701		
Apco Oil Corp 1000	Liberty Bank	Bldg,	Oklahoma City,	Okla,	: ▶		
Southern Union Gas Co	Fidelity	Union I	ower, Dallas,	Texas			
N. E. Salsich - 411 N	. Loraine. Mic	dland.	Texas				
Texaco Inc Box 310	9, Midland, To	exas					
Were all operators listed in Item 5 ab	ove notified and furnish 5, 1967	ned a copy o	f this application? YES	X NO	. If answer is yes, give		
date of such notification DOC.	<u> </u>	•					
CERTIFICATE: I, the undersigned, s	Ex	colorat	ion Manager	1.			
nder my supervision and direction and the	nat the facts stated there	ein are true,	correct and complete to the	ne best of	and that this report was prepared my knowledge.		
•				*			
	•						
				Signaturo			
hould waivers from all offset operators ion will hold the application for a period	od of 💎 🔀 (20) days f	rom date of	receipt by the Commission	n's Santa	Fe office. If, after said twenty-		
uy period, no protest nor request for he	will to received by the	ouncere o	give, the application will	men oe pi	occoseu.		

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in an encommon 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

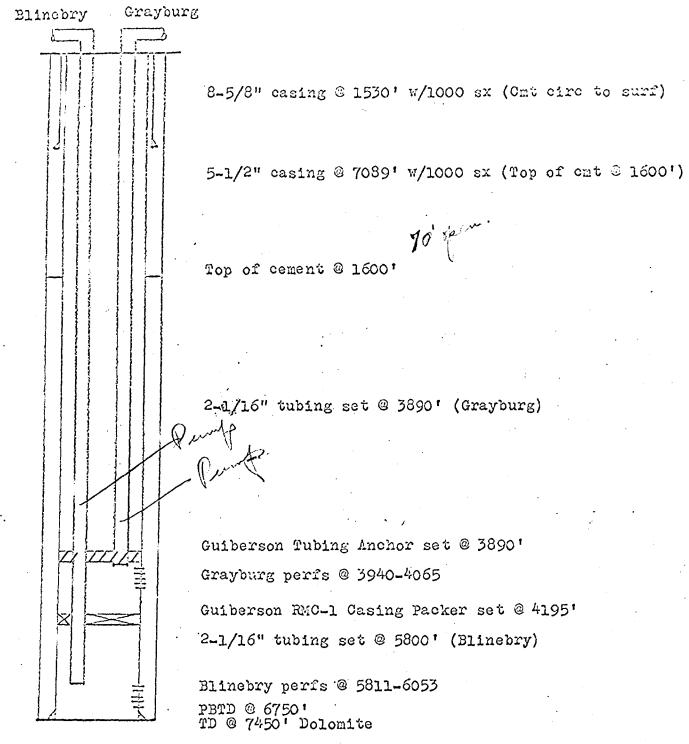
ON BOTTOM

CASE NO. 3707

CASE NO.

DIAGRAMMATIC SKETCH OF THE MULTIPLE COMPLETION

Wm. Barnhill - #1 Kechane



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

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 2707

