case 2931: Application of TEXACO for a triple completion of its State of New Mexico "M" Well #7.

ASE MO.

APPlication,
Transcripts,
SMALL Exhibits
ETC.

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TEXACO INC.

VACUUM POOLS AREA

LEA COUNTY, NEW MEXICO

SCALE 1" = 2000

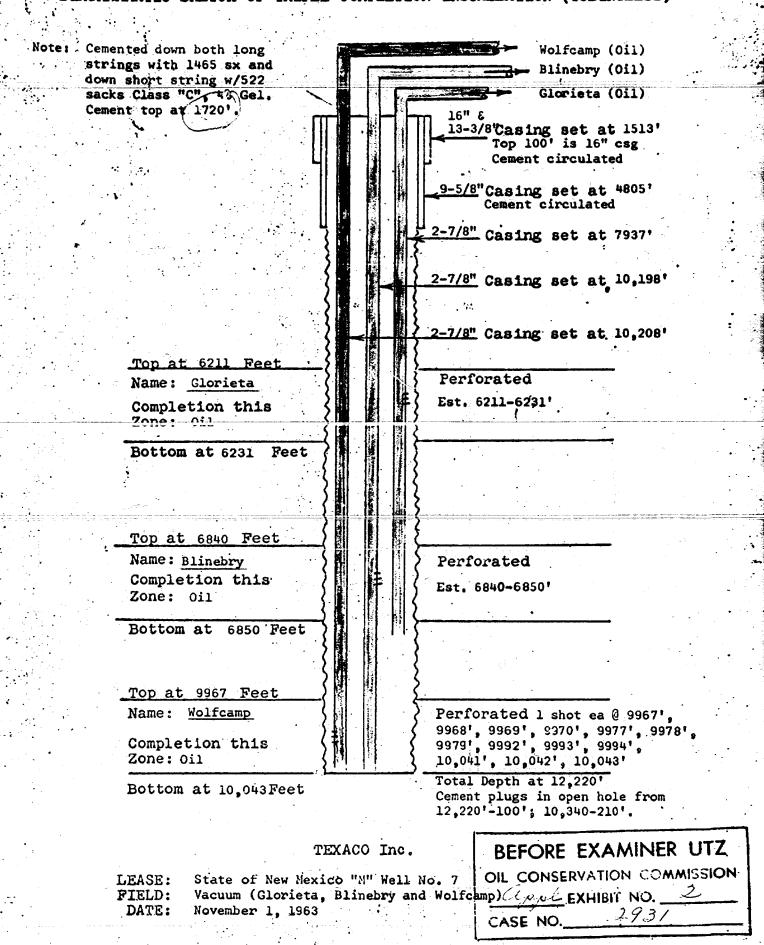
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CL. CASERVATION COMMISSION

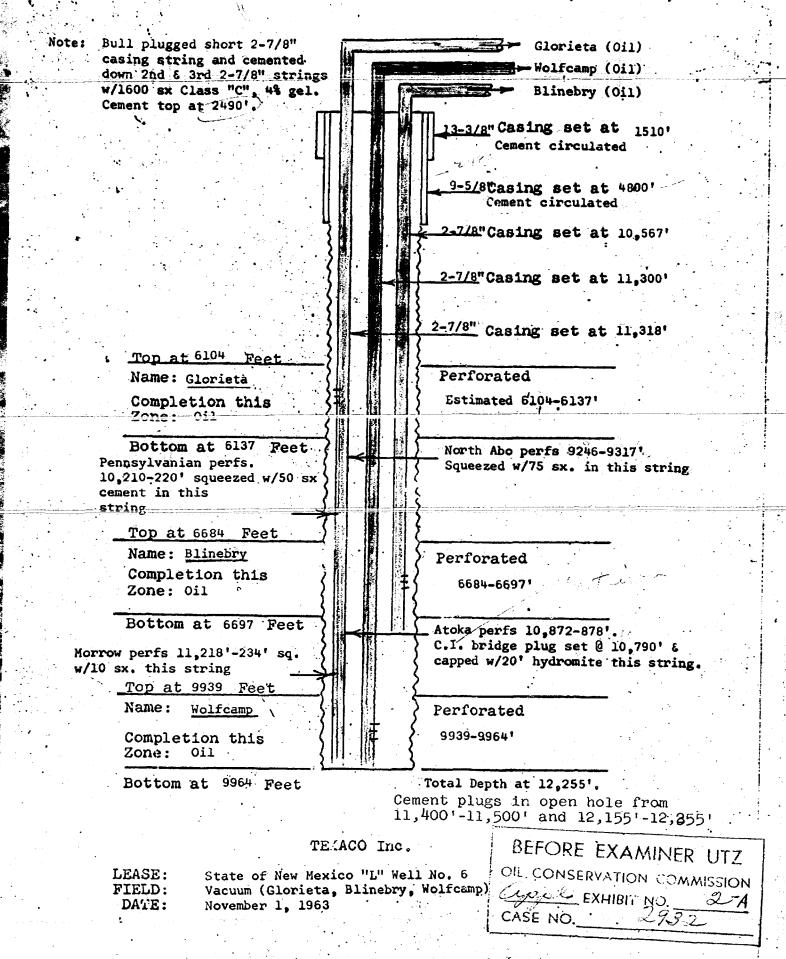
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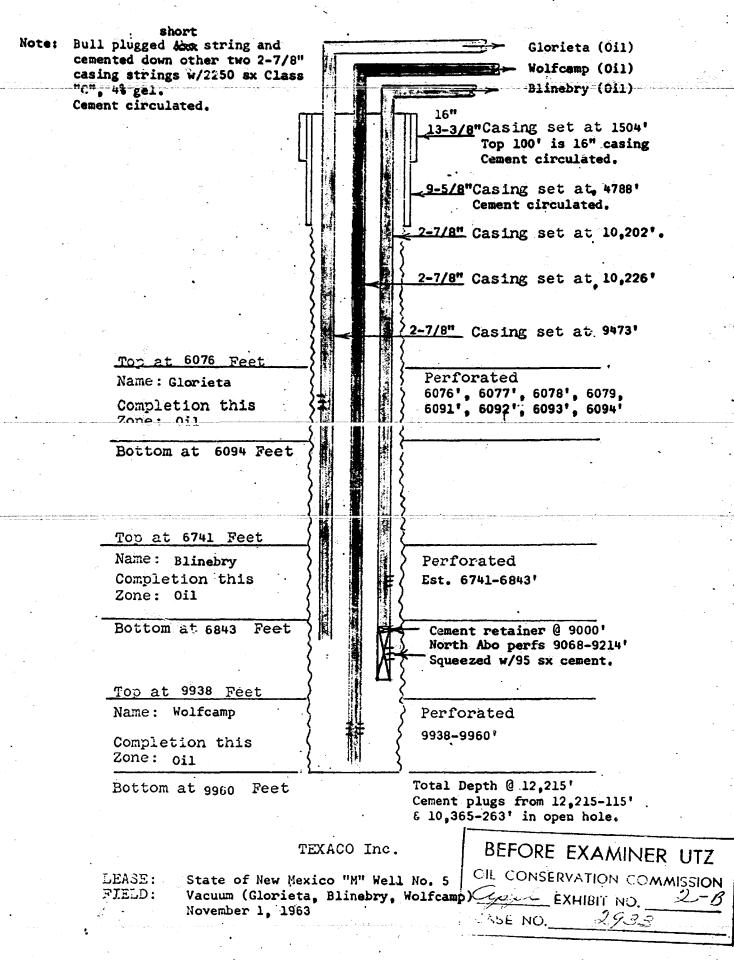
DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION (TUBINGLESS)



DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION (TUBINGLESS)



DEAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION (TUBINGLESS)



TEXACO INC. VACUUM (GLORIETA, BLINEBRY, AND WOLFCAMP) POOLS CRUDE CHARACTERISTICS

<u> Item</u>	Vacuum Glorieta	Vacuum Blinebry	Vacuum Wolfcamp
Type Crude	Int. Sweet	Int. Sweet	Int. Sweet
Gravity (OAPI)	37.2	36.0	42.1
BHP (psi)	2177	1540	3668
GOR (cu.ft./bbl.)	567	350	1066
Statils	El on .	Pump	Flow
Corrosion	None	None	None
Paraffin	Slight	Slight	Slight

OIL CONSERVATION COMMISSION

Cycle EXHIBIT NO. 3

CASE NO. 2931, 2933, 2933

TEXACO Can 293/

MAIN OFFICE OCC

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT



1933 OCT 23 AH 8 1 16 P. O. BOX 180

October 21, 1963

New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attn: Mr. A. L. Porter, Jr.

Gentlemen:

Texaco Inc. respectfully requests that a hearing be set to consider its application for a tubingless triple completion for the State of New Mexico "M" No (7.) This well will be completed in the Vacuum (Glorieta), Vacuum (Blinebry), and Vacuum (Wolfin the Vacuum) Pools, Lea County, New Mexico. In support of our application we wish to state the following facts:

- 1. Texaco is the operator of the State of

 Now Merico "M" Lease containing 160 acres

 and consisting of the NW/4, Section 1,

 T-18-S, R-34-E, Lea County, New Mexico.
- 2. State of New Mexico "M" Well No. 7 is located in Unit F of said Section 1.
- 3. The Glorieta zone will be an oil completion through casing perforations 6211'-6231'.
- 4. The Blinebry zone will be an oil completion through casing perforations 6840'-6850'.
- 5. The Wolfcamp zone will be an oil completion through casing perforations 9967'-10,043'.
- 6. All three zones will be produced through parallel strings of 2-7/8" casing cemented in a common well bore.

Attached is an Application for Triple Completion and a plat of the Texaco State of New Mexico "M" Lease. It is respectfully requested that this application be set for hearing on the first available hearing docket.

Yours very truly,

DOCKET MAILED

C. R. Black

C. R. Black Division Proration Engineer

CRB-MM Attach.

NEW MEXICO OIL CONSERVATION COMMISSION 66 2931

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DEAK COMPLETION

ield Name Vacuum Glorieta	•	County	_	Date 10-21-63
Perator Blinebry	, Wolfcamp		<u>Lea</u>	Well No.
Texaco Inc.	Lease	11 M11		well No.
	Section	Township		Range
i Well F	7		8-s	34-E
itas the New Mexico Oil Conservation	a Commission beretolore as			
zones within one mile of the subject		T 22	iple	well in these same pools of in the sa
If answer is yes, identify one such in		-	Operator, Lease, an	id Well No.:
			opolition , 20000, 20	
		41-	3°5	<u>.</u>
The following facts are submitted:	1	· 	Middle	
	Upper	Zone	Zone	Lower Zone
o. Name of reservoir	Vacuum Gl	orieta	Blinebry	Wolfcamp
b. Top and Bottom of	Vacuum UI	OI IC Oa	LITTICOL A	WOII CAMP
Pay Section	6211	·-6231	68401-68	50' 9967'-10,043'
(Perforations)		~- > -		350(10,0.3
c. Type of production (Oil or Gas)	011		011	011
d. Method of Production	1			
(Flowing or Artificial Lift)	Flow		Flow	Flow
The following are attached. (Please				
NO e. Waivers consenting to suc	etting applicant's lease. The dual completion from each	and the second s		
NO e. Waivers consenting to such been furnished copies of the NO d. Electrical log of the well thereon. (If such log is not	cting applicant's lease. ch dual completion from each e application. or other acceptable log with t available at the time appli	h offset operat h tops and bot cation is filed	or, or in lieu thereof toms of producing zo , it shall be submitte	nes and intervals of perforation indicated as provided by Rule 11244.)
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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 protation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

(°ane 293) R-35-E

R-34-E

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TEXACO INC.

VACUUM POOLS AREAD: 18 WV 62 100 6961

LEA COUNTY, NEW MEXICO

SCALE 1" = 2000

300 301510 111411

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 6, 1963

9:00 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. Mutter, alternate examiner:

CASE 2931:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (tubingless) of its State of New Mexico "M" Well No. 7, located in Unit F of Section 1, Township 18 South, Range 34 East, Lea County, New Mexico, to produce oil from the Vacuum-Glorieta, Vacuum-Wolfcamp and Vacuum-Bline-bry Pools through parallel strings of 2 7/8 inch casing cemented in a common well bore.

CASE 2932:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (tubingless) of its State of New Mexico "L" Well No. 6 located in Unit B of Section 1, Township 18 South, Range 34 East, Lea County, New Mexico, to produce oil from the Vacuum-Glorieta, Vacuum-Wolfcamp and Vacuum-Bline-bry Pools through parallel strings of 2 7/8 inch casing cemented in a common well bore,

CASE 2933:

Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (tubingless) of its State of New Mexico "M" Well No. 5, located in Unit D of Section 1, Township 18 South, Range 34 East, Lea County, New Mexico, to produce oil from the Vacuum-Glorieta, Vacuum-Wolfcamp and Vacuum-Blinebry Pools through parallel strings of 2 7/8 inch casing cemented in a common well bore.

CASE 2934:

Application of Coastal States Gas Producing Company for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the approval of an unorthodox location for its Ainsworth Well No. 1 located 660 feet from the South line and 1980 feet from the East line of Section 22, Township 9 South, Range 33 East, Flying "M" Abo Pool, Lea County, New Mexico.

"an 293/

TEXACO

PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT MIDLAND DIVISION

23 AN 8: 14

P. O. BOX 2200 MIDLAND, TEXAS

October 21, 1963

Mr. Jim Durrett New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Dear Jim:

Attached are our letters requesting that hearings be set for the purpose of considering our applications for triple tubingless completions for the State of New Mexico "M"
Wells No. 5 and 7 and State of New Mexico "L" Well No. 6,
Vacuum (Glorieta, Blinebry, and Welferm), Pools, Lea County,
New Mexico. You will recall our telephone conversation of
October 18, concerning these applications. These letters are submitted as a follow up to that conversation.

Thank you for your time and efforts concerning this matter. I will be looking forward to seeing you in Santa Fe in the very near future.

Yours very truly,

C. R. Black

Petroleum Engineer

CRB-MM Attach.

DOCKET MAKED

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Record. 17-6-63

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Ellovila, Blindry Worfcamp.

DEFORE THE OIL COMBERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL COMBERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF COMSIDERING:

> CASE No. 2931 Order No. R-2599

APPLICATION OF TEXACO INC. FOR A TRIPLE COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on Movember 6, 1963, at Santa Fe, New Mexico, before Blvis A. Uts, Examiner duly appointed by the Oil Commercation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

MOW, on this 13th day of Movember, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Blvis A. Utz, and being fully advised in the premises,

FIMDS:

- (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, Texaco Inc., seeks authority to complete its State of New Mexico "M" Well No. 7, located in Unit F of Section 1, Township 18 South, Range 34 East, EMPM, Lea County, New Nexico, as a triple completion (tubingless) to produce oil from the Vacuum-Glorista, Vacuum-Blinebry, and Vacuum-Wolfcamp Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.
- (3) That the mechanics of the proposed triple completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to complete its State of New Mexico "M" Well No. 7, located in

-2-CASE No. 2931 Order No. R-2599

Unit P of Section 1, Township 18 South, Range 34 East, MMPM, Lea County, New Mexico, as a triple completion (tubingless) to produce oil from the Vacuum-Glorieta, Vacuum-Blinshry, and Vacuum-Welfcam Poels through parallel strings of 2 7/8-inch casing cemented in a common well bore.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of hule 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 some segre gation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Vacuum-Wolfcamp Pool.

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

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

STATE OF NEW MEXICO
OIL COMSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

a. L. Porter, D.

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

JMD/esr

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. 2931

Order No. R- 2599

APPLICATION OF TEXACO INC. FOR A TRIPLE COMPLETION, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 6, 1963, at Santa Fe, New Mexico, before Elvis A. Utz

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 day of November, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz , 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, Texaco Inc., seeks authority to complete its State of New Mexico "M" Well No. 7, located in Unit F of Section 1, Township 18 South, Range 34 East, NMPM, Lea County, New Mexico, as a triple completion (tubingless) to produce oil from the Vacuum-Glorieta, Vacuum-Wolfcamp, and Vacuum-Blinebry Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.
- (3) That the mechanics of the proposed triple completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to complete its State of New Mexico "M" Well No. 7, located in Unit F of Section 1, Township 18 South, Range 34 East, NMPM, Lea County, New Mexico, as a triple completion (tubingless) to produce oil from the Vacuum-Glorieta, Vacuum-Wolfcamp, and Vacuum-Blinebry Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.

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 zone segregation tests upon completion and annually thereafter during the
Gas-Oil Ratio Test Period for the Vacuum-Blindery Bool.

(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.

GOVERNOR JACK M. CAMPBELL DHAIRMAN

State of Mate Mexico

Gil Conserbation Commission

LAND COMMISSIONER

C. G. JOHNNY WALKER

ASSAULTS



STATE SECURIST
A. L. PORTER, JR.
REGRETARY - DIRECTOR

Movember 13, 1963

Mr. Booker Kelly Gilbert, White & Gilbert Attorneys at Law Post Office Box 787 Sunta Fe, New Mexico Order No. R-2599
Applicant:

TEXACO IEC.

Dear Sire

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

Carbon copy of order also sent to:

Bobbs OCC ____X

Artesia OCC____
Astec OCC ____
OTHER____

	HEFORE THE NEW MEXICO OIL CONSERVATION COMMISS Santa Fe, New Mexico November 6, 1963	BION		
	EXAMINER HEARING	•		
	IN THE MATTER OF:			
	Application of Texaco Inc. for a triple completion, Lea County, New Mexico.	Case	No. 29	931
	Application of Texaco Inc. for a triple completion, Lea County, New Mexico.	Case 1	io _{s2}	2923
	Application of Texaco Inc. for a triple	Case 1	No29) <u>33</u>
	completion, Lea County, New Mexico.) 		
	BEFORE: Elvis A. Utz, Examiner	<u>: نسخت یا ب</u> م	1963 NO	3
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DEARNLEY-MEIER REPORTING SERVICE, Inc.



NE	EW MEXICO OIL CONSERVATION COMM EXAMINER HEARING SANTA FE , NEW REGISTER	
HEARING DATE NOT	VEMBER 6, 1963 TIM	LOCATION:
D.M. Williams C. Staton	Tevaco Inc. Construction Perd. Co.	1 Sort 14 Hobbs Romen
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rque, New Mexico Phone 243-6691

MR. UTZ: The hearing will come to order, please. The first case on the docket will be 2931.

MR. DURRETT: Application of Texaco Inc. for a triple completion, Lea County, New Mexico.

MR. KELLY: William Booker Kelly of Gilbert, White, and Gilbert, Santa Fe, appearing on behalf of Texaco. The three cases, 2931 through 33, are all similar, and we would move that they be consolidated for testimony.

MR. UTZ: Cases 2931, 2932, 2933 will be consolidated for the purpose of taking testimony. Separate orders will be written on each case.

MR. KELLY: We have one witness.

MP DUPPERMY If you will rise, I'll swear you in now.

(Witness sworn.)

(Whereupon, Applicant's Exhibits 1, 2, 2a, 2b, 3 and 4 marked for identification.)

D. M. WILLIAMS

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

DIRECT EXAMINATION

BY MR. KELLY:

Q Would you state your name, your position, and your employer, please?

A I am D. M. Williams. I am District Petroleum Engineer with Texaco Inc. in Hobbs, New Mexico.



Q Have you previously testified before this Commission?

A No, I have not.

Q Would you give the Examiner your educational and professional background?

A I have a Bachelor of Science degree in Petroleum Engineering from the University of Texas in 1950. I have been employed as a Petroleum Engineer since graduation; for the past five years I have been employed as Petroleum Engineer for Texaco Inc.

Q Does your professional experience give you working familiarity with the three wells involved here?

A Yes, it does.

MR. KELLY: Are the witness' qualifications acceptable?
MR. UTZ: Yes, they are.

Q (By Mr. Kelly) Could you tell us what Texaco seeks by these three applications; and refer to Exhibit 1.

A Texaco seeks approval for triple, tubingless, completions of the State of New Mexico "M" Well No. 5, which is located, referring to Exhibit 1, in Unit D, 560 feet from the north line and 760 feet from the west line, Section 1, Township 18 South, Range 34 East, Lea County; and for State of New Mexico "M" Well No. 7, located in Unit F, 1800 feet from the north line, 1980 feet from the west line, Section 1, Township 18 South, Range 34 East, Lea County; and also State of New Mexico "L" Well No. 6 located in Unit B, 770 feet from the north line, 2090 feet from



the east line, Section 1, Township 18 South, Range 34 East, Lea County; all three of these wells seeking triple tubingless completions in the Vacuum-Glorieta, Vacuum-Blinebry, and Vacuum-Wolfcamp Fields.

MR. UTZ: All are within the horizontal limits of these pools?

Yes, sir.

(By Mr. Kelly) Could you give us the present status of the three subject wells?

A State of New Mexico "M" Well No. 7 has been drilled to a total depth of 12,220 feet. It has been equipped with three strings of 2-7/8ths inch OD.

MR. UTZ: Do you have diagrammatic sketches for these? A Yes, sir, we plan to present these as an additional exhibit.

MR. UTZ: Why don't you hand them out now so we can kind of follow you.

MR. KELLY: Diagrammatic sketch of "M"-7 is covered on Applicant's Exhibit No. 2.

As I mentioned, "M"-7 has been drilled to a total depth of 12,220 feet and has been equipped with three strings of 2-7/8ths inch OD casing set, installed as indicated on the diagram in Exhibit 2. The Wolfcamp zone has been perforated with selected perforations between the depths of 9967 feet to 10,043 feet. This zone has been stimulated, tested, and notential tested



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The other two proposed zones in the "M" No. 7 have not yet been perforated for completion.

Q (By Mr. Kelly) You might as well go on to explain the installation that you propose on this well.

A Additional work proposed on "M" No. 7 is perforation for completion in the Glorieta zone for an oil completion, estimated perforations between 6211 feet, 6231 feet; and perforations for an oil completion in the Blinebry zone, estimated perforations between 6840 feet to 6850 feet. At the present time the Wolfcamp zone is the only one which has been completed in the "M" No. 7.

Q Let's go on to what I have marked 2-a, which is the New Mexico "L" No. 6, and give the present status in reference to that well, and what you propose to do there.

A The State of New Mexico "L" Well No. 6 has been drilled to a total depth of 12,255 feet. It has installed three strings of 2-7/8ths inch casing, as indicated on the sketch. Completion attempts have been made in one of the strings of casing, as indicated on the diagram. first in the Morrow zone in the interval from 11,218 feet to 11,234 feet. This zone proved to be non-productive. The perforations were squeezed with cement.

The next completion attempt in this string of 2-7/8ths inch casing was made in the Atoka zone through perforations 10,872 feet to 10,878 feet. This zone proved to be non-productive. A cast iron bridge plug was set in the 2-7/8ths inch casing string



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at 10,790 feet above the non-productive Atoka perforations. This plug was capped with 20 feet of hydromite on top of the plug.

The next zone which was tried for completion was the Pennsylvanian through perforations 10,210 feet to 10,220 feet.

This zone was non-productive and was squeezed with cement.

Completion attempt in this same string of 2-7/8ths inch casing was then attempted in the North Abo zone through perforations 9246 feet to 9317 feet. This zone was found to be non-productive and was squeezed with cement.

No additional work has been performed in this string of 2-7/8ths inch casing at this time.

zone in the second string of 2-7/8ths inch casing indicated on the diagram. The Wolfcamp interval has been perforated and initially stimulated, and preliminary testing has been made through these perforations, 9939 feet to 9964 feet; and finally at this point the Blinebry zone in the third string of 2-7/8ths inch casing has been perforated from the interval 6684 feet to 6697 feet, and at this time we are in the process of stimulating and testing for a completion in the Blinebry zone.

The State of New Mexico "L" Well No. 6 was originally planned as a triple completion in the Vacuum-Wolfcamp, Pennsylvanian and Devonian formations. The initial plan was for a combination tubingless conventional completion, utilizing two parallel strings of 2-7/8ths inch OD casing for the Wolfcamp and Pennsylvanian



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formations and a parallel string of 3-1/2 inch casing with 1-1/2 inch tubing for the Devonian. This original application was set for hearing, Case No. 2826, which was heard on June 5th, 1963, and the application was approved by Order No. R-2505.

The proposed Pennsylvanian and Devonian formations were found to be non-productive upon completion of drilling of this well. Therefore, the completion intervals have now been changed to the Glorieta, Blinebry, and Wolfcamp.

Q Now referring to what has been marked Exhibit 2-b, which covers the "M" Well No. 5, will you give me the present status and proposed installation?

A State of New Mexico "M" Well No. 5 has been drilled to a total depth of 12,115 feet. It has installed three strings of 2-7/8ths inch-OD casing. The Wolfcamp zone has been perforated, stimulated; and initial completion testing has been performed through perforations 9938 to 9960.

Completion attempt has been made in the second string of 2-7/8ths inch casing in the North Abo zone through perforations 9,068 to 9,214. This interval was found to be non-productive.

Those perforations have been squeezed with cement.

At this time additional work in that string of casing has not been done, and it is planned to perforate in this string of casing for Blinebry completion, estimated interval 6741 to 6843.

The third string of 2-7/8ths inch casing, the Glorieta zone has been perforated with selected perforations in the interval



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6,076 feet to 6,094 feet. Initial stimulation and initial completion testing is now being performed in this zone.

Exhibit No. 3 is a breakdown of the crude characteristics for this field in the three zones. Will you comment on
that, especially in relation to any expected corrosion or
paraffin problems?

- A This is referred to Exhibit 3 now?
- Q Yes.
- A Exhibit 3 tabulates crude characteristics of the Vacuum-Glorieta, Vacuum-Blinebry, Vacuum-Wolfcamp Pools. The Vacuum-Glorieta type of crude is intermediate sweet. API gravity of the crude --
- all the figures into the record. They do represent the crude characteristics of the three pools?
- A Yes, sir, that is correct, they do represent the crude characteristics of the three pools. Commenting on the characteristics or the items listed in the exhibit, our experience with other completions has indicated there are no corresion problems with the fluids produced from these three reservoirs. Paraffin has been indicated to be only very slight. We do not anticipate any problems with corrosion or paraffin in these three proposed completion intervals.
- Q You haven't run into any particular paraffin problems in this field in these zones?



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A No, sir, in the wells completed, in Texaco's wells completed so far in these reservoirs in the Vacuum Pool, we have not been bothered with any problems.

Q What steps could Texaco take if they did encounter paraffin problems?

A The paraffin as indicated would be only slight and is not severe enough to prevent it from being moved mechanically should the paraffin problem necessitate treatment or removal when zones have to be artificially lifted. The Wolfcamp zone is planned to be artificially lifted when needed with hydraulic pumping equipment, which would permit circulation of heated fluids to dissolve the paraffin.

Texaco has received approval in this field for these three zones in other combinations, haven't they?

A Yes, sir. All three of these zones have been completed and approved for completion as tubingless multiple completions in other wells in other combinations other than this particular combination.

Q Could you give the Examiner in your expert opinion some of the proposed advantages of this system over the conventional triple completion?

A Compared to the conventional triple completion, there would be large advantage in cost of the wells, the tubingless triple being considerably less expensive than the conventional.

Another advantage in this case of the tubingless triple completion



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compared to conventional triple completion would be that if at a later date it were necessary to perform any work on any one of the three completions, there would be a minimum of interruption or interference with production from the other two zones.

- Q You have logs on each of these wells, don't you?
- A Yes, sir.
- Q You might just read them into the record.
- A Exhibit No. 4, Case No. 2931, is a gamma ray sonic log of Texaco Inc. State of New Mexico "M" Well No. 7, which has marked on the log tops and bases of the formations, and perforated intervals, and estimated or anticipated perforated intervals for the three zones.

Exhibit No. 4 marked for Case No. 2932 is a gamma ray acoustic log on Texaco Inc. State of New Mexico "L" Well No. 6 on which are marked the tops and bases of the anticipated producing reservoir, and also marked are perforated intervals and anticipated perforated intervals.

Exhibit No. 4, Case No. 2933, is a gamma ray sonic log on Texaco Inc. State of New Mexico "M" Well No. 5 on which has been marked tops and bases of formations, and also has been marked perforated intervals and anticipated perforated intervals.

- Q In your opinion would the granting of this application prevent economic waste and duplication of expense?
 - A Yes, sir, it would.
 - Q Were the eight exhibits entered prepared by you or under

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your supervision?

A Under my supervision, yes, sir.

MR. KELLY: We move the introduction of the exhibits.

MR. UTZ: Without objection the Exhibits 1, 2, 2-a, 2-b, and Exhibit 3, and three Exhibit 4's will be entered into the case.

(Whereupon, Applicant's Exhibits Nos. 1, 2, 2-a, 2-b, 3, and three Exhibit 4's admitted in evidence.)

MR. KELLY: I have no further questions at this time.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Williams, I note that you are going to have to pump the Blinebry. What kind of pumping equipment do you propose to use?

A Mr. Examiner, we propose to install rod pump.

Q Can you use a rod pump satisfactorily in 2-7/8th-inch casing?

A Yes, sir, that has been our experience in this type of completion.

Q Do you propose to use the same type of pumping equipment in the other zones when they have to be pumped?

A We propose at this time to use the rod-type pump in the Glorieta zone at such time as it has to be pumped; and we propose to use hydraulic pumping equipment in the deeper Wolfcamp



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some en such time es in has to be gumped.

- a I believe you have completed the Wolfdamp some in each of these wells, is that correct?
- We have completed, and officially potential tested the Wolfcamp zone in 'M" No. 7, and we have completed and some initial testing of the Wolfcamp zone in "M" -5 and "L" -6. We have not taken or submitted the official potential test of the Wolfcamp zone in either the "M" -5 or the "L" -6 as yet.
- Q Did you use turbilizers or centralizers above or below the producing formation on each of the strings of casing?
- A Yes, sir, centralizers were used over all of the producing zones in these wells, yes, sir.
 - G How far above and below each some did you use it?
 - A minimum of 150 feet above and below.
- Q And the cement is circulated back up into the 9-5/Stha in each of these wells?
- A Yes, sir. If you would refer, please, to the diagrammatic sketches, I don't recall what our number is now, but the cement used is indicated in the top left-hand corner.
- Q That shows the actual cement program rather than the centralizers used for each of these wells?
- A Yes, this is the actual cement program that was used for each of the wells. In the case of "M" No. 7, the top of the cement as determined by temperature survey was at 1720 feet from the surface. On "L" No. 6, the top of the cement as indicated by

temperature survey was found to be at 2490 feet from the surface; and on "M" No. 5 cement was actually circulated to the surface on that well.

MR. UTZ: Are there other questions of the witness? The witness may be excused.

(Witness excused.)

MR. UTZ: Any other statements in this case? The case will be taken under advisement.

STATE OF NEW MEXICO 88 COUNTY OF BERNALILLO

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo. State of New Moxico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission 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 7th day of November, 1963.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No.293/-32-33 J..., 19.6.3...

., Examiner New Mexico Oli Conservation Commission

My Commission Expires:

June 19, 1967.