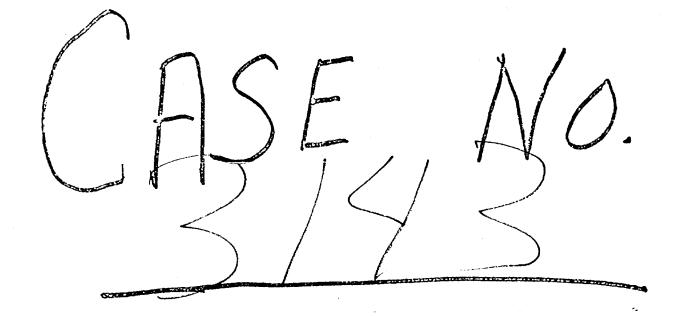
CAS	E :	3143:	Application	of !	<b>TEXACO</b>
for	а	dual	completion,	Lea	County,
		exico.			<del>-</del>



APPlication,
Transcripts,
SMAILEX hibits
ETC.

Case 3/43

Read. 11-12-64

Rec. 11-13-64

1. Krant Disaco request for a dual completion (combination) for them

Hillaris # 21, 650/5 x1750 E. lines = 35-125-38 E.

Li Chi Bronzo Woefcamps & Bronzo 
Liluso - Ner. oil Pools.

Thurse July

### DOCKET: EXAMINER HEARING - THURSDAY - NOVEMBER 12, 1964

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

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

CASE 3129: (Continued from the October 13, 1964 Examiner Hearing).

Application of Shell Oil Company for a unit agreement, Lea County,
New Mexico. Applicant, in the above-styled cause, seeks approval
of the West Wilson Deep Unit Area comprising 3360 acres, more or
less, of State and Fee lands in Township 21 South, Range 34 East,
Lea County, New Mexico.

CASE 3138: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to consider exempting certain oil pools in Lea, Chaves, Roosevelt and Eddy Counties, New Mexico, from the gas-oil ratio testing requirements of Rule 301 of the Commission Rules and Regulations. The following pools will be considered for exemption:

#### ARTESIA DISTRICT

Atoka-San Andres Atoka-Grayburg Benson-Yates, East Bitter Lakes-San Andres, South Bitter Lakes-San Andres, West Brown, Q. Gbr. Brushy Draw-Delaware Canyon-Wolfcamp Carisbad-Delaware Cass Draw-Delaware Cave (Gbr.) Case-San Andres, West Cedar Lake-Cisco Chisum-Devonian Corral Canyon-Delaware Cotton Draw-Brushy Canyon Coyote-Queen Dark Canyon-Delaware Dayton-Abo Dayton-Grayburg, East Dayton-San Andres, West Diablo-San Andres Dog Canyon-Grayburg Dos Heramos, Yates-Seven Rivers Eagle Creek-San Andres Empire Paddock Empire-Yates-Seven Rivers, E. Four Mile Draw-San Andres Fren Paddock Hackberry-Seven Rivers Hackberry-Yates, North L. E. Ranch-San Andres

Leo-Queen-Grayburg, South Leslie Spring-San Andres Linda-San Andres Loco Hills-San Andres, South Logan Draw-San Andres Malaga-Delaware McMillan Seven Rivers-Queen, East Miliman-Seven Rivers, East Palmillo-Seven Rivers Parallel-Delaware Pecos-Delaware Pecos-San Andres Penasco-San Andres Penasco-Wolfcamp Quahada Ridge-Delaware Red Hills- Yates Red Lake-Queen-Grayburg, East Red Lake-Seven Rivers, South Remuda-Wolfcamp Round Tank-San Andres Saladar-Yates Sand Tank-Queen Shugart-Bone Springs Shugart-Wolfcamp

Square Lake Grayburg-San Andres, North Sulphate Draw-Delaware
Twin Lakes-Devonian
U. S. Delaware
Welch-Delaware
White Ranch Siluro-Devonian
White Ranch-Devonian, West
Windmill-San Andres

#### HOBBS DISTRICT

Baish-Wolfcamp, North Baum-Wolfcamp Bishop Canyon-Queen Bowers-Seven Rivers Caprock-Wolfcamp, East CLR-San Andres Corbin-Queen, South Corbin-Yates Crossroads-Mississippian Crossroads-San Andres, West Dollarhide-Queen Dublin-Devonian Echols-Devonian, East Echols-Devonian, North Edson-Pennsylvanian Elliott-Abo Field Ranch-Wolfcamp Gladiola-Woltcamp, South Hume-Queen

Hume-Queen, West Jenkins-Devonian Jenkins-San Andres King-Wolfcamp Lea-Yates Littman-San Andres Lone-Wolfcamp Lovington-San Andres Lovington-San Andres, West Lynch-Yates, Middle Pearl-Pennsylvanian Querecho Plains-Bone Springs Querecho Plains-Delaware Querecho Plains-Yates Teague-Devonian Teague-Ellenburger Teague Simpson Warren-Abo Williams-Pennsylvanian, North Young-San Andres

CASE 3139: Application of Shell Oil Company for a dual completion and a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the S/2 SW/4, NE/4 SW/4, and SW/4 SE/4 of Section 3, Township 21 South, Range 37 East, Tubb Gas Pool, Lea County, New Mexico, to be dedicated to its Livingston Well No. 7 located in Unit V of said Section 3. Applicant further seeks approval of said well as a dual completion (conventional) to produce oil from the Drinkard Pool through 2-3/8 inch tubing and to produce gas from the Tubb Gas Pool through the casing-tubing annulus.

CASE 3140: Application of Caulkins Oil Company for a non-standard location and a dual completion, Rio Arriba County, New Mexico. Applicant, in the abovestyled cause, seeks approval of an unorthodox location for its Breech B Well No. PD-123 to be located 700 feet from the North line and 1800 feet from the East line of Section 7, Township 26 North, Range 6 West, Rio Arriba County, New Mexico. Applicant further seeks authority to complete said well as a dual completion (conventional) to produce gas from the South Blanco-Pictured Cliffs Pool through 1-1/4 inch tubing and to produce gas from the Basin-Dakota Gas Pool through 2-3/8 inch tubing.

CASE 3141:

Application of Caulkins Oil Company for a non-standard location and a dual completion, Rio Arriba County, New Mexico. Applicant, in the abovestyled cause, seeks approval of an unorthodox location for its Breech C Well No. D-144 to be located 990 feet from the North line and 1,090 feet from the East line of Section 12, Township 26 North, Range 6 West, Rio Arriba County, New Mexico. Applicant further seeks authority to complete said well as a dual completion (conventional) to produce oil from the South Blanco-Tocito Pool through 2-3/8 inch tubing and to produce gas from the Basin-Dakota Gas Pool through 1-1/4 inch tubing.

- 3 -November 12 Examiner Hearing

- CASE 3142: Application of N. B. Hunt for a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 280-acre non-standard gas proration unit comprising the SW/4, W/2 SE/4, and SE/4 SE/4 of Section 21, Township 21 South, Range 37 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to his Wantz Well No. 2 located in Unit L of said Section 21. In the event all of said acreage is not approved for said Well No. 2, applicant seeks approval of another non-standard unit comprising the remaining acreage to be dedicated to his Wantz Well No. 1 in Unit A of said Section 21.
- CASE 3143: Application of Texaco Inc. for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its H. H. Harris Well No. 2 located in Unit O of Section 35, Township 12 South, Range 38 East, Lea County, New Mexico, as a dual completion (combination) to produce oil from the Bronco Wolfcamp Pool through 2-7/8 inch casing and to produce oil from the Bronco Siluro-Devonian Pool through tubing in a parallel string of 3-1/2 inch casing cememted in a common well bore.
- CASE 3144: Application of Texaco Inc. for force-pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Drinkard Pool underlying the SE/4 of the SW/4 of Section 17, Township 22 South, Range 38 East, Lea County, New Mexico.
- CASE 3145: Application of Sunray DX Oil Company for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to complete its State "AS" Well No. 1 located in Unit G of Section 29, Township 11 South, Range 33 East, Lea County, New Mexico, as a dual completion to produce oil from the Pennsylvanian formation through tubing and to dispose of produced salt water down the production-intermediate casing annulus into the San Andres, Glorieta, and Tubb formations from 3840 feet to 8600 feet.
- CASE 2660: (Reopened and continued from the October 28th Examiner Hearing)

  In the matter of Case No. 2660 being reopened pursuant to the provisions of Order No. R-2348-A, which continued the original order establishing 80-acre proration units for the Middle Lane-Pennsylvanian Pool, Lea County, New Mexico, for an additional year. All interested parties may appear and show cause why said pool should not be developed on 40-acre proration units.

TEXACO 1 12 C.

PETROLEUM PRODUCTS



October 15, 1964

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:)

DRAWER 728

HOBBS, NEW MEXICO 88240

Jan. 3 143

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

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

TEXACO Inc. respectfully requests that a hearing be set to consider Gentlemen: its application for a combination conventional-tubingless completion for the H.H. Harris Well No. 2. This well will be completed in the Bronco (Wolfcamp) Pool and Bronco (Siluro-Devonian) Pool, Lea County, New Mexico. In support of our application we wish to state the following facts:

- 1. TEXACO Inc. is the Operator of the H.H. Harris Lease containing 302.67 acres and consisting of the S/2 of Section 35, Township 12 South, Range 38 East, Lea County, New Mexico.
  - 2. H.H. Harris Well No. 2 is located in Unit O of said Section 35.
- 3. The Siluro-Devonian zone will be an oil completion through casing perforations from approximately 11,792 feet to 11,833 feet.
- 4. The Wolfcamp zone will be an oil completion through casing perforations from approximately 9,000 feet to 9,040 feet.
- 5. The Wolfcamp zone is expected to require pumping and it will be produced through 2-7/8 inch casing cemented in a common well bore with 3-1/2 inch casing that will serve the Siluro-Devonian zone. The Siluro-Devonian zone is expected to flow and it will be produced through 1-1/2 inch tubing.

Attached is an Application for Multiple Completion and a plat of the H.H. Harris Lease. It is respectfully requested that this application be set for hearing on the first available hearing docket.

Yours very truly,

C. L. Whigham

Division Proration Engineer

WPY-bh

Attachments

DOCKET MAILED

Date 10-30-64

## NEW MEXICO OIL CONSERVATION COMMISSION

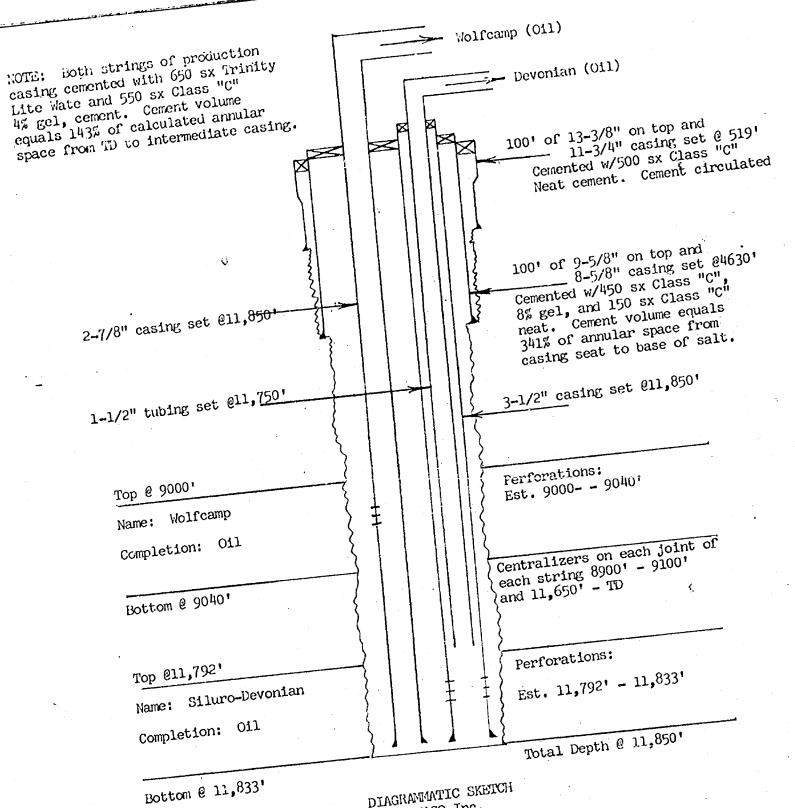
SANTA FE, NEW MEXICO

## APPLICATION FOR MULTIPLE COMPLETION

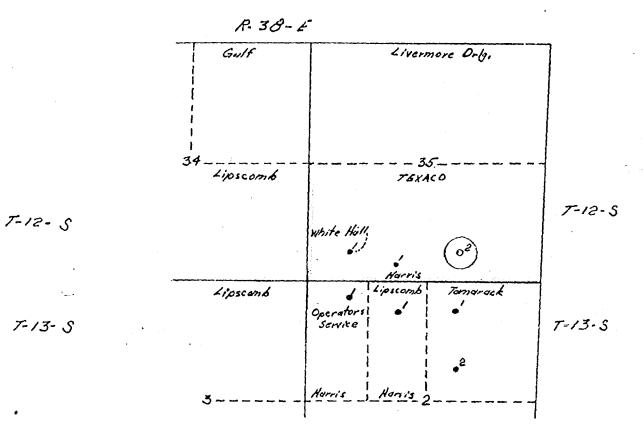
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Operator				Coun	·	Date	-	
	TEXACO Inc.				Lea		October 15	<u>• 1964</u>
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Location	P.O. Box 728	Sect		Townshi	H. Harris	Rang	<u> </u>	<del></del>
or Well	0		35	1	2 South		38 East	
		Conservation (	Commission heretofore s	uthorized	the multiple comple	tion of a well	l in these same	oools or in the
same 2. If answ	zones within one mi	le of the subje one such instal	uce: Order NoUpper Zone	NO <u>X</u>		e, and Well N	···	ower one
	<u> </u>				голе			
	ne of Pool and Form	ation E	Pronco Wolfcamp				Bronco Si	<u>luro-Devonia</u>
į:	and Buttom of ay Section Perforations)	F	st. 9000'-9040'				Est. 11,79	92'-11,833'
c. Typ	e of production (Oil	or Gas)	Oil				(	0i1
d. Met	nod of Production							
(1	lowing or Artificial	Lift)	Pump				] ]	Flow
1. The fol	lowing are attached.	(Please mari	k YES of NO)					
5. List all	thereon. (If such offset operators to	log is not ava	ther acceptable log with ilable at the time application this well is located ubbock National	cation is	filed, it shall be sub	mitted as pro nailing addres	vided by Rule 1	
Operato	ors Service Co	., 201 We	st Bldg., Midlar	ıd, Tex	as			
Mrs. R.	C. Lipscomb (	Lipscomb	Estate), 901 Ala	amo Nat	ional Bldg.,	San Anton	io, Texas	
Tamara	k Petroleum C	o., 521 M	idland Savings E	Bldg.,	Midland, Texas	5		
			. Roswell, New N					
. Were all			otified and furnished a		nis application? YE	S NO	X. Il answer i	s yes, give date
CERTIF	ICATE: I, the unde		that I am the Division and that I am authorize					
ider my su	pervision and direct		e facts stated therein s		orrect and complete	to the best of	my knowledge.	was prepared
						Maigha Agnatur	m	
			rs not accompany an ap for a period of twenty (2	plication	for administrative as	proval, the N	lew Mexico Oil (	
alte	r said twenty-day pe	tiod, no prote	st nor request for hearin ill result in an unorthod	ng is rece	ived by the Santa Fe	office, the a	pplication will t	hen be processed.

the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



DIAGRAMMATIC SKETCH
TEXACO Inc.
H. Harris Well No. 2
Bronco (Wolfcamp & Siluro-Devonian) Pools
Lea County, New Mexico



TEXACO Inc.
H. H. Harris Lease
Bronco Field

Scale:  $1^{11} = 2000^{\dagger}$ 

### OFFSET OPERATORS

Livermore Drilling Co-406 Lubbock Nat'l Bldg-Lubbock, Texas Operators Service Co-201 West Bldg.-Midland, Texas Mrs. R. C. Lipscomb (Lipscomb Estate)-901 Alamo Nat'l Bldg. San Antonio, Texas Tamarack Petroleum Co-521 Midland Savings Bldg-Midland, Texas Gulf Oil Corp-Box 1938-Roswell, New Mexico

# TEXACO Inc.

# Bronco (Wolfcamp & Siluro-Devonian) Pools Crude Characteristics

Item Type Crude		Wolfcamp	Siluro-Devonian
Gravity (OAPI)		Intermediate Sweet	Intermediate Sweet
BHP (psi)	7.	42.3	44.40
GOR (cu. ft./bbl)		2397	4176
Status		1145	132
Corrosion		Pump	Flow
Paraffin		None	None
		Slight	Slight

#### GOVERNOR JACK M. CAMPBELL DHAIRMAN

## State of New Mexico

# **Gil Conserbation Commission**

LAND DUMMISSIONER E. S. JOHNNY WALKER MEMBER



P. O. 80X 2088 SANTA FE BTATE GEOLOGIST A. L. PORTER, JR. SECRETARY - DIRECTOR

November 24, 1964

Mr. Booker Kelly	Re:	CASE NO	3143	anca paragamenta income
Gilbert, White & Gilbert		ORDER NO	R-2812	
Attorney at Law Post Office Box 787 Santa Fe, New Mexico		APPLICANT	TEXACO	
•				

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

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. 3143 Order No. R-2812

APPLICATION OF TEXACO INC. FOR A DUAL 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 12, 1964, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 24th day of November, 1964, 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, Texaco Inc., seeks authority to complete its H. H. Harris Well No. 2, located in Unit O of Section 35, Township 12 South, Range 38 East, NMPM, Lea County, New Mexico, as a dual completion (combination) to produce oil from the Bronco-Wolfcamp Pool through 2 7/8-inch casing and to produce oil from the Bronco Siluro-Devonian Pool through 1 1/2-inch tubing in a parallel string of 3 1/2-inch casing cemented in a common well bore.
- (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. 3143 Order No. R-2812

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco Inc., is hereby authorized to complete its H. H. Harris Well No. 2, located in Unit O of Section 35, Township 12 South, Range 38 East, NMPM, Lea County, New Mexico, as a dual completion (combination) to produce oil from the Bronco-Wolfcamp Pool through 2 7/8-inch casing and to produce oil from the Bronco Siluro-Devonian Pool through 1 1/2-inch tubing in a parallel string of 3 1/2-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 Annual Gas-Oil Ratio Test Period for the Bronco Siluro-Devonian Pool.

(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

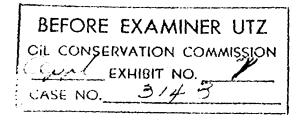
JACK M. CAMPBELL, Chairman

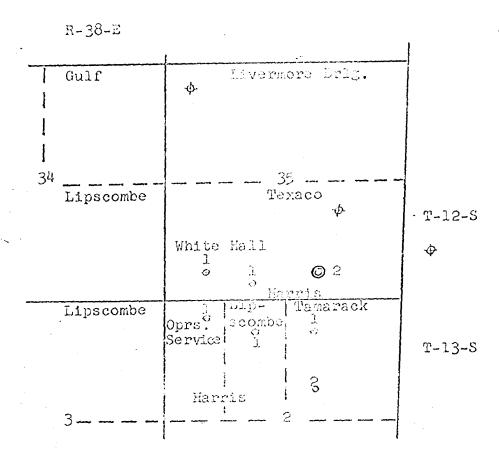
Laction,

E. S. WALKER, Member

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

esr/



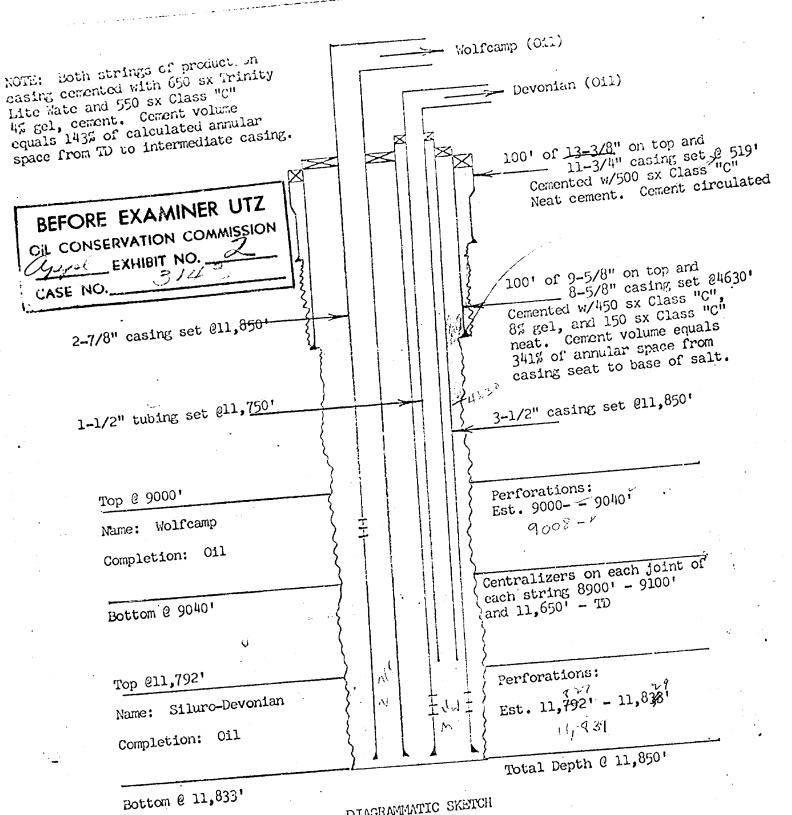


TEXACO Inc. H. H. Harris Lease Bronco Field

Scale: 1" = 2000!

## OFFSET OPERATORS

Livermore Drilling Co-405 Lubbock Nat'l Bldg-Lubbock, Texas
Operators Service Co-201 West Bldg-Midland, Texas
Mrs. R. C. Lipscombe (Lipscombe Estate)-901 Alamo Nat'l BldgSan Antonio, Texas
Tamarack Petroleum Co-521 Midland Savings Bldg-Midland, Texas
Oulf Oil Corp-Box 1938-Roswell, New Mexico



DIAGRAMMATIC SKETCH

TEXACO Inc.

H. H. Harris Well No. 2

Bronco (Wolfcamp & Siluro-Devonian) Pools

Lea County, New Mexico

TEXACO Inc.

## Bronco (Wolfcamp & Siluro-Devonian) Pools Crude Characteristics

<u> Item</u>	Wolfcamp	Siluro-Devonian	
Type Crude	Intermediate Sweet	Intermediate Sweet	
Gravity (°API)	42.3	44.40	
BHP (psi)	2397	4176	
GOR (cu. ft./bbl)	1145	132	
Status	Pump	Flow	
Corrosion	None	None	
Paraffin	Slight	Slight	

BEFORE	EXAMINER UTZ
OIL CONSE	RVATION COMMISSION
Colymbia 1	XHIBIT_NO.
CÁSE NO	

dearnley-meier reporting service,

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

November 12, 1964

HEARING EXAMINER

IN THE MATTER OF: Application of Texaco Inc. for a dual completion, Lea County, New Mexico. Applicant in the above-styled cause seeks authority to complete its H. H. Harris Well No. 2 located in Unit O of Section 35, Township 12 South, Range 38 East, Lea County, New Mexico, as a dual completion (combination) Case No. to produce oil from the Bronco Siluro-Devonian Pool through tubing in a parallel string of 3 1/2 inch casing cemented in a common well bore.

Elvis A. Utz, Examiner BEFORE:

TRANSCRIPT OF HEARING



TEXACO Inc.

## Bronco (Wolfcamp & Siluro-Devonian) Pools Crude Characteristics

<u>Item</u>	Wolfcamp	Siluro-Devonian	
Type Crude	Intermediate Sweet	Intermediate Sweet	
Gravity (°API)	42.3	111.110	
BHP (psi)	2397	4176	
GOR (cu. ft./obl)	1145	132	
Status	Pump	Flow	
Corrosion	None	None	
Paraffin	Slight	Slight	

8OX 1092

MR. UTZ: The next case will be Case 3143.

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

MR. KELLY: Booker Kelly of Gilbert, White and Gilbert, Santa Fe, appearing on behalf of the Applicant. I have one witness and ask that he be sworn.

(Witness sworn.)

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

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

#### DIRECT EXAMINATION

#### BY MR. KELLY:

- Q Would you state your name, position and employer, please?
- A My name is Carl L. Whigham. I'm the Midland Division Proration Engineer for the Texaco Inc. located in Midland, Texas.
- Q You have previously testified as an expert witness in front of this Commission?
  - A Yes, sir.
- Q Would you briefly state what Texaco seeks by the application?
  - A Texaco, as the applicant in this case, seeks

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authority to dually complete its H. H. Harris Well Number 2 located in Unit O of Section 35, Township 12 South, Range 38 East, Lea County, New Mexico, as a dual completion in the Bronco Wolfcamp Pool, and the Bronco Siluro-Devonian Pool.

- Q Referring to Exhibit 1, this shows the location of the well, is that correct?
  - A Yes.
- Q Would you give a brief report of the present status of the well?
- A This well has been completed, potential tests have been conducted.
  - Q What zones are you going to be producing in?
  - A The Bronco Siluro-Devonian and the Bronco Wolfcamp.
  - Q Are there any similar duals in the area?
- A No, there are no other dual completions with these two particular reservoirs.
- Q Referring to what has been marked Exhibit Number 2, the diagramatic sketch, would you explain the mechanics of your completion?
- A Exhibit Number 2, the diagramatic sketch of this completion shows it has 13 3/8s surface casing extended to 100 feet, and below that 11 3/4-inch casing on down to 519 feet. This string of surface casing was cemented to the surface. The next string of casing, the intermediate, was set at 4,630

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The intermediate casing size was 9 5/8s and 8 5/8s. This casing was cemented with 450 sacks of Class C, 8 percent Gel, followed by 150 sacks of Class C Neat cement, and this amount was 341 percent of the annular space up to the base of the salt section; then the two production atrings of casing were set, after reaching a total depth of 11,850 feet. casing was set at 11,836 feet, and 3 1/2-inch casing was set at 11,847 feet.

- The figures given on the sketch are your proposed. This was prepared before the well was completed?
- Right. I was about to explain that the casing was set at exactly the depths specified, when we submitted our application.
- As you go through, would you explain the changes? And, we move that the exhibit be amended as the changes occur.
- Both strings of production casing were cemented with 650 sacks of Trinity light water cement, followed by 550 sacks of Class C-4 percent Gel cement.

This was calculated to be 143 percent of the volume to fill up to the intermediate casing. After cementation, the Wolfcamp reservoir was perforated at five points, 9,008, 9,016, 9,024, 9,031 and 9,035 feet. That will also be a correction to the perforations shown on the original exhibit, which was estimated to be between 9,000 and 9,040 feet.



BOX 1092 • PHONE 243-669

Then the Siluro-Devonian zone was perforated at three points, 11,827 feet, 11,829 feet and 11,831 feet. Then both of these zones were acidized, and potential tested.

You don't contemplate any communication between the two zones?

No, the two zones will be produced through separate Α strings of casing. They are isolated, both by the casing string and the cement.

You have an Exhibit 3, showing the crude characteristics of the two zones. Would you briefly go through that?

Yes, the two zones are rather similar with regard to the crude oil characteristics. Both crudes are classified as intermediate sweet; both of them have relatively high API gravities between 42 and 44. The bottom hole pressure in the Wolfcamp was measured to be 2397 psi., whereas the deeper Siluro-Devonian had a bottom hole pressure of 4176 psi.

The Wolfcamp zone has a higher gas-oil ratio than the Devonian. It's gas-oil ratio is 1145, whereas the Devonian has a gas-oil ratio of 132.

Our Exhibit Number 3 shows that the Wolfcamp zone will be pumped and the Siluro-Devonian zone will flow. Our production tests have indicated that the Devonian zone will probably also have to be pumped. It flowed on the test, but the flowing tubing pressure was very low, so we expect to have to pump both zones. We expect no corrosion problems in either zone, and the paraffin problem will be minor from both upon this recovery.

- Q The Exhibit 3 shows the crude characteristics are quite similar. Do you think that you would probably commingle them if you had administrative approval?
- A That will be given due consideration and they will probably be commingled.
  - Q Do you have a log of the well available?
- A I believe that there is one that was filed with the application. Would you like another one?

MR. UTZ: No, this is plenty.

- Q (By Mr. Kelly) Would the granting of this application be in the best interest of the prevention of waste and would have no adverse effect on correlative rights, in your opinion?
  - A That's correct.
- Q Were Exhibits 1 through 3 prepared by you or under your supervision?
  - A Yes.

MR. KELLY: I move the introduction of Exhibits 1 through 3.

MR. UTZ: Without objection Exhibits 1 through 3 will

PHONE 243-6691 . ALBUQUERQUE.

8OX 1092 •

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120 SIMMS BLDG.

be entered into the record of this case.

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

MR. KELLY: I have no further questions of the witness.

## CROSS EXAMINATION

## BY MR. UTZ:

- As I understand your cementing program, the 2 7/8s and 3 1/2 was circulated from bottom up into and behind the intermediate stage?
  - Yes, sir.
  - So you have a solid column of cement?
  - Yes.
- What was the location of this well, the footage location?
- 650 feet from the South line and 1750 feet from the East line of Section 35, that would be Unit 0, 12 South, 38 East.
  - 12 South, 38 East? Q
  - Yes, that's correct, Township 12 South, Range 38

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

(Witness excused.)

MR. UTZ: Any statements in this case? The case



will be taken under advisement.

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 24th day of November, 1964.

Notary Public - Court Reporter

My Commission Expires: June 19, 1967



I do hereby certify that the foregoing is a complete record of the proceedings in the Examinar hearing of Case No. 3/43.

Hourd by no complete the proceedings in the proceeding in the pro