

CASE 2896: Application of **TEXACO**
for the triple completion of its
L. R. KERSHAW WELL NO. 8.

CASE No.

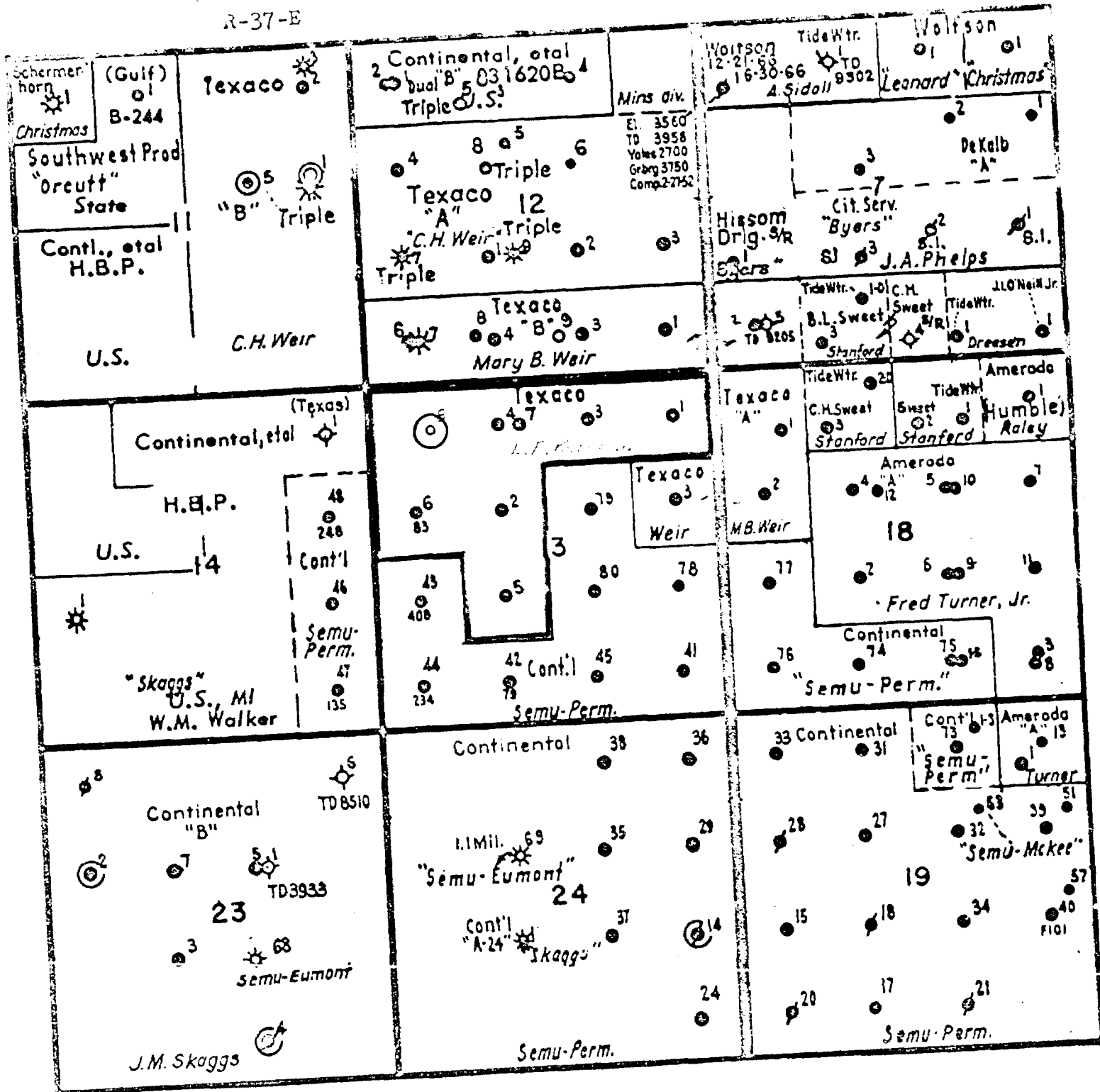
2896

Application,
TRANSCRIPTS,
SMALL Exhibits
ETC.

R-37-E

R-38-E

T
20
S



OWNERSHIP PLAT
TEXACO INC.
L. R. KERSHAW LEASE
LEA COUNTY, NEW MEXICO
SCALE 1" = 2000'

REGISTERED EXAMINER UTZ

EXHIBIT NO. 1

CASE NO. 2896

DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION (TUBINGLESS)

Note: Cemented production casing through the two deep strings simultaneously with 500 sx class "C", 4% gel with friction reducer followed by 200 sx class "C" 4% gel. Top cement @ 2300'.

Centralizers and Scratchers on every casing joint through each pay.

Top at 3626 Feet
Name: Penrose Form.
Eumont Gas Pool.
Completion this
Zone: Gas

Bottom at 3688 Feet

Top at 3806 Feet
Name: Grayburg Form.
Skaggs Pool
Completion this
Zone: Oil

Bottom at 3880 Feet

Top at 5746 Feet
Name: Blinebry Form.
East Weir Bline. Pool
Completion this
Zone: Oil

Bottom at 5878 Feet

Blinebry (Oil)
Skaggs (Oil)
Eumont (Gas)

9 5/8" Casing set at 1410'
(Cement Circulated)

2 7/8" Casing set at 4006'

2 7/8" Casing set at 6178'

2 7/8" Casing set at 6179'

Perforated:
One shot each at
3626', 3650', & 3688'

Perforated:
One shot each at 3806', & 3821'
Two shots per foot
3836'-40', 3852'-56, & 3876'-80'

Perforated: One shot each at
5746', 5774', 5794', 5840', & 5878'

Total Depth @ 6180'

TEXACO Inc.

LEASE: L. R. Kershaw Well No. 8
FIELD: Eumont Gas, Skaggs, & East Weir Blinebry Pools
DATE: August 29, 1963

BEFORE EXAMINER UT7	
CL	MISSION
	2
CASE	2896

TEXACO Inc.
L. R. Kershaw Well No. 8
Crude Characteristics

Item	Penrose Eumont Gas Pool	Grayburg Skaggs Pool	Blinebry East Weir Blinebry Pool
Type Crude	Dry Gas	Sour	Int. Sweet
Gravity ($^{\circ}$ API)	--	36(Est.)	41
BHP(psi)	616	628	2358
GOR(ft 3/bbl)	1325 MCFPD	TSTM(Est.)	718
Status	Flow	Pump	Flow
Corrosion	None	*Slight	None
Paraffin	None	**Moderate	None

Note: Data Above not marked "(Est.)" are actual.

* Plan to inhibit with squeeze treatments as required.

** Use scrapers on rods and pull well occasionally.

Productivity Tests:

Eumont Gas: 8-12-63 Flow 24 hours on full open choke.
1325 MCFPD, Flowing pressure 150 psi.

East Weir Blinebry: 8-19-63 Flow 18 hours on 18/64" choke.
93 Bbls. Oil, Flowing pressure 450 psi, GOR 718,
Oil Gravity 41.0 $^{\circ}$ API.

Skaggs: No test--installing pumping unit. Anticipate capacity of
top unit allowable of 40 BOPD.

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	<u>3</u>
CASE NO.	<u>2896</u>

Rec'd 8:30 am
8/19/63

TEXACO
INC.

PETROLEUM PRODUCTS



DOMESTIC PRODUCING DEPARTMENT
MIDLAND DIVISION

P. O. BOX 3108
MIDLAND, TEXAS

(Case 2896
9/4/63

August 14, 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 triple tubingless completion for its L. R. Kershaw Well No. 8. The well will be triply completed in the East Weir (Blinbry), Skaggs (Glorieta), and Eumont (Gas) Pools, Lea County, New Mexico. Production from each zone will be through individual strings of tubing cemented as casing in a common well bore. In support of our application we wish to state the following facts:

1. Texaco Inc. is the operator of the L. R. Kershaw Lease containing 280 acres and consisting of the NW/4, N/2 NE/4, and NW/4 SW/4, Section 13, T-20-S, R-37-E, Lea County, New Mexico.
2. The L. R. Kershaw Well No. 8 is located 660' from the north line and 990' from the west line of said Section 13.
3. The Blinbry zone will be an oil completion through casing perforations 5746'-5878'. This zone will be produced through a string of 2-7/8" OD tubing cemented in the well bore.
4. The Glorieta zone will be an oil completion through casing perforations 3806'-3821'. This zone will be produced through a string of 2-7/8" OD tubing cemented in the well bore.
5. The Eumont zone will be a gas completion through casing perforations 3626'-3688'. This zone will be produced through a string of 2-7/8" OD tubing cemented in the well bore.

DOCKET MAILED

DATE 8/23-63
JL

NMOCC

-2-

August 14, 1963

Attached is an Application for Triple Completion and a plat of the Texaco Inc. L. R. Kershaw Lease. It is respectfully requested that this application be set for hearing on the first available Examiner hearing docket.

Yours very truly,

C. R. Black

C. R. Black
Division Proration Engineer

CRB-MM
Attach.

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

Triple
APPLICATION FOR ~~DUAL~~ COMPLETION

Field Name <u>Skaggs (Glorieta), Eumont (Gas)</u>		County <u>Lea</u>	Date <u>8-13-63</u>
<u>East Weir (Blinebry)</u>			
Operator <u>Texaco Inc.</u>		Lease <u>L. R. Kershaw</u>	Well No. <u>8</u>
Location of Well	Unit <u>D</u>	Section <u>13</u>	Township <u>20-S</u>
			Range <u>37-E</u>

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

3. The following facts are submitted:	Upper Zone	Middle Zone	Lower Zone
a. Name of reservoir	<u>Eumont (Gas)</u>	<u>Glorieta</u>	<u>Blinebry</u>
b. Top and Bottom of Pay Section (Perforations)	<u>3626-3688</u>	<u>3806-3821</u>	<u>5746-5878</u>
c. Type of production (Oil or Gas)	<u>Gas</u>	<u>Oil</u>	<u>Oil</u>
d. Method of Production (Flowing or Artificial Lift)	<u>Flow</u>	<u>Pump</u>	<u>Flow</u>

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

triple

- No a. Diagrammatic Sketch of the ~~du~~ Completion, showing all casing strings, including size and setting, 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.
- Yes 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.
- No c. Waivers consenting to such ~~du~~ completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- No 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.

Continental Oil Company P. O. Box 427 Hobbs, New Mexico

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

CERTIFICATE: I, the undersigned, state that I am the Divn. Pror. Engr. of the Texaco (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.

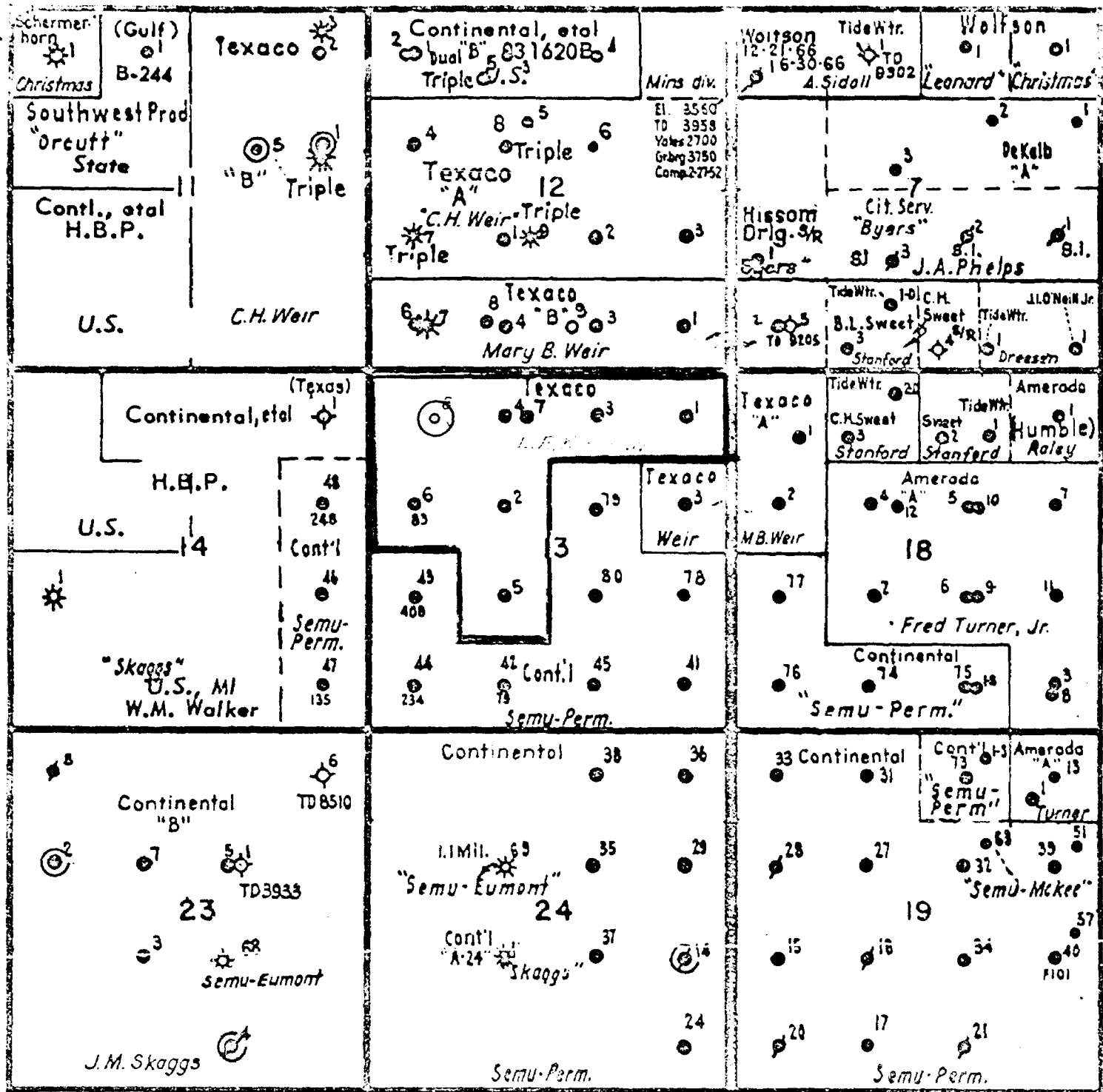
C. R. Black

Signature C. R. Black

- * 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 dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

R-37-E

R-38-E



OWNERSHIP PLAT
 TEXACO INC.
 L. R. KERSHAW LEASE
 LEA COUNTY, NEW MEXICO
 SCALE 1" = 2000'



CONTINENTAL OIL COMPANY

P. O. BOX 1377
ROSWELL, NEW MEXICO

PRODUCTION DEPARTMENT
NEW MEXICO DIVISION
A. B. SLAYBAUGH
DIVISION SUPERINTENDENT
V. C. EISSLER
ASSISTANT DIVISION SUPERINTENDENT

August 28, 1963

625 PETROLEUM BUILDING
TELEPHONE: MAIN 2-4202

New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr., Secretary-Director

Gentlemen:

Re: CASE NO. 2896 -
APPLICATION OF TEXACO,
INCORPORATED FOR TRIPLE
COMPLETION

We have been notified of the application of Texaco, Incorporated for authority to triply complete their L. R. Kershaw Well No. 8 located in Unit D, Section 13, T20S, R37E, Lea County, New Mexico. Texaco has informed us that the application and published notice were incorrect in that the proposed completion intervals are to be Eumont gas, Skaggs Grayburg, and East Weir Blinebry pools rather than Eumont Gas, Skaggs Glorietta and East Weir Blinebry pools, as advertised.

Continental Oil Company has no objection to the amendment of the application at the September 4th hearing and waives further notice on the amended application.

Yours very truly,

VTL-pr

cc: Texaco, Inc., Box 3109, Midland, Texas - Attn: C. R. Black
RGP JRP

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 4, 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. Nutter, as alternate examiner:

- CASE 2890: Application of S. P. Yates for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill and complete an oil well in the Seven Rivers formation at an unorthodox location 1435 feet from the North line and 1155 feet from the East line of Section 12, Township 20 South, Range 26 East, Eddy County, New Mexico.
- CASE 2891: Application of Continental Oil Company for the creation of a new oil pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool comprising portions of Sections 30 and 31, Township 26 South, Range 32 East, Lea County, New Mexico, said pool to be designated the Battleaxe Delaware Pool.
- CASE 2892: Application of Continental Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Baish Pool, Lea County, New Mexico, by the injection of water into the Yates formation through four wells located in the NE/4 of Section 21, Township 17 South, Range 32 East.
- CASE 2893: Application of Murphy H. Baxter for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Indian Hills Upper Pennsylvanian Gas Pool underlying all of Section 32, Township 21 South, Range 24 East, Eddy County, New Mexico.
- CASE 2894: Application of Murphy H. Baxter for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill his Marathon State Well No. 1 at an unorthodox Indian Hills Upper Pennsylvanian location 844 feet from the North line and 473 feet from the West line of Section 32, Township 21 South, Range 24 East, Eddy County, New Mexico.
- CASE 2895: Application of Texaco Inc. for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its J. B. McGhee Well No. 1, located in Unit I of Section 31, Township 24 South, Range 38 East, Lea County, New Mexico, to produce oil from the Dollarhide-Drinkard and Dollarhide-Devonian Pools through parallel strings of tubing.
- CASE 2896: Application of Texaco Inc. for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple com-

-2-

No. 25-63

pletion (tubingless) of its L. R. Kershaw Well No. 8, located in Unit D of Section 13, Township 20 South, Range 37 East, Lea County, New Mexico, to produce gas from the Eumont Gas Pool and oil from the Skaggs-Glorieta and East Weir-Blinebry Pools through parallel strings of tubing cemented in a common well bore.

CASE 2884:

(Continued from August 21, 1963 examiner hearing)

Application of Continental Oil Company for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project by the injection of water into the Dakota formation through its Table Mesa Well No. 25, located in Unit K, Section 34, Township 28 North, Range 17 West, Table Mesa Pool, San Juan County, New Mexico.

CASE 2888:

(Continued from the August 21, 1963 examiner hearing)

Application of the British American Oil Producing Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Jalmat Deep Unit Area comprising 10,568.81 acres of State land in Townships 21 and 22 South, Range 35 East, Lea County, New Mexico.

Case 2896

Heard 9-4-63

Rec. 9-4-63

1. Hunt ~~Dept.~~ Departs request for a Triple completion (Dutinyless) for their L. R. Kershaw Well #8, 660/W + 004/W lines sec. 3-28-37 E to be completed in Summit Gas, Skaggs Grayburg, or E. Klein Blinby Oil.
2. Casing for all zones will be 2 7/8" cement returned to 2300'. Turbopump or centralizer to be used at least 100' above & below each producing zone.
2. Usual Muttiple order.

Thos. W. P.

DIAGRAMMATIC SKETCH OF TRIPLE COMPLETION INSTALLATION (TUBINGLESS)

8D-13-20-37 (TRIPLE)

NOTE: Production strings cemented with 700 sacks Class "C", 4% Gel.

Temp. Survey
Cement top @ 2300'

Blinebry (Oil)
Grayburg (Oil)
Eumont (Gas)

9-5/8" Casing set at 1410'
Cement circulated.

2-7/8" Casing set at 4005'

2-7/8" Casing set at 6178'

2-7/8" Casing set at 6179'

Top at 3626 Feet

Name: Eumont

Completion this
Zone: Gas

Bottom at 3688 Feet

Perforated 1 shot each
@ 3626', 3650', 3688'

Centralizers on each joint of
each string 3600-3700', 3800-3900',
5700-TD.

Top at 3806 Feet

Name: Grayburg

Completion this
Zone: Oil

Bottom at 3880 Feet

Perforated 1 shot each @
3806', 3821' & 2 shots per ft.
3836-40', 3852-56', 3876-80'.

Top at 5746 Feet

Name: Blinebry

Completion this
Zone: Oil

Bottom at 5878 Feet

Perforated 1 shot each @
5746', 5774', 5794', 5840', 5878'

Total Depth @ 6180'

1963 SEP 20 AM 8:40
MAIN OFFICE OCC

TEXACO Inc.

LEASE: L. R. Kershaw Well No. 8
FIELD: Skaggs, Eumont (Gas) and E. Weir (Blinebry)
DATE: September 11, 1963

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. 2896
Order No. R-2563

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 September 4, 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 11th day of September, 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 L. R. Kershaw Well No. 8, located in Unit D of Section 13, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (tubingless) to produce gas from the Eumont Gas Pool and oil from the Skaggs-Grayburg and East Weir-Blinbry Pools through three parallel strings of 2 7/8-inch casing, all casing strings to be 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 L. R. Kershaw Well No. 8, located in Unit D of Section 13, Township 20 South, Range 37 East, NMPM, Lea County,

-2-

CASE No. 2896

Order No. R-2563

New Mexico, as a triple completion (tubingless) to produce gas from the Sumont Gas Pool and oil from the Skaggs-Grayburg and East Weir-Blinebry Pools through three parallel strings of 2 7/8-inch casing, all casing strings to be 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 East Weir-Blinebry Pool.

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

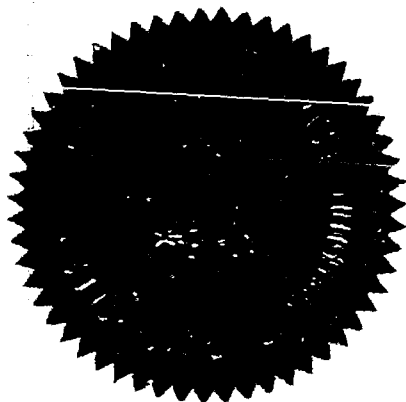
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Jack M. Campbell
JACK M. CAMPBELL, Chairman

E. S. Walker
E. S. WALKER, Member

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



esr/

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

EXAMINER HEARING

IN THE MATTER OF:

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 L. R. Kershaw Well No. 8, located in Unit D of Section 13, Township 20 South, Range 37 East, Lea County, New Mexico, to produce gas from the Eumont Gas Pool and oil from the Skaggs-Glorieta and East Weir-Blinebry Pools through parallel strings of tubing cemented in a common well bore.

Case No. 2896

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

September 4, 1963.

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3671

ALBUQUERQUE, N. M.
PHONE 243-6691



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6191

MR. UTZ: We will proceed to Case 2896. Let the record show that the witness has been previously sworn.

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

MR. WHITE: May the record show the same appearance of counsel as in the previous case.

(Whereupon, Applicant's Exhibits 1 through 4 were marked for identification.)

C. R. BLACK

called as a witness, having been previously duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. WHITE:

Q Are you the same Mr. Black that testified in the previous Case 2895?

A Yes, I am.

Q Will you state what Texaco is seeking by the subject application?

A This is the application of Texaco for approval of a triple completion, tubingless, for our L. R. Kershaw Well No. 8 in the Eumont Gas Pool, Skaggs-Grayburg Pool and Weir-East Blinebry Pools.

Q Mr. Black, the application states one of your completions



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. H.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

in the Skaggs-Glorieta instead of the Skaggs-Grayburg, is that correct?

A Yes, sir, the original application submitted on August 14, did state Skaggs-Glorieta.

Q That should be amended to read Skaggs-Grayburg?

A Yes, sir.

MR. WHITE: At this time we move to so amend the application, and in support of our grounds therefore, we might state that Continental is the only offset operator and they have consented to the amendment as more fully shown in their letter of August 28 addressed to the Commission, and we would like to have that letter made a part of the record.

MR. UTZ: You want that letter marked as an exhibit or just made a part of the record?

MR. WHITE: Just made a part of the record.

MR. UTZ: The Continental letter of August 28, 1963 will be made a part of the record in this case. Since Continental is the only offset operator and does not object to the change in the application, the application will be amended to read Skaggs-Grayburg rather than Skaggs-Glorieta.

MR. WHITE: Thank you.

Q (By Mr. White) Mr. Black, will you explain your ownership plat, Exhibit 1?



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

A Exhibit No. 1, again, is an ownership plat showing the Texaco L. R. Kershaw lease and the area immediately surrounding. The lease is bordered in yellow and the subject well is circled in red.

Q Will you give the location of the subject well?

A The footage location of the subject well is 660 feet from the North line and 990 feet from the West line of Section 13, Township 20 South, Range 37 East, Lea County, New Mexico.

MR. UTZ: Give me the locations again.

A 660 from the North and 990 from the West of said Section 13.

MR. UTZ: Thank you.

Q (By Mr. White) What is the status of this well?

A At the present time we are completing the well, all zones have been tested, actually we are installing pumping equipment and preparing to take the zone segregation tests.

Q Where are the nearest completions, if any, in these three zones?

A In the Grayburg or Skaggs-Grayburg, the nearest completion is the Texaco L. R. Kershaw Well No. 4 immediately east. It is also offset directly to the north and to the south by Grayburg completions. The nearest Blinbry completion is the Texaco Kershaw No. 7 one location east. The nearest Eumont gas



completion is the Texaco C. H. Weir "A" No. 7 in Section 12, approximately a half mile north of the subject well.

Q What acreage do you intend to dedicate to this well and by what authority?

A We, of course, plan to dedicate the Northwest Quarter of said Section 13 to the Blinebry and Grayburg oil zones, and we intend to dedicate the entire Northwest Quarter containing 160 acres as a non-standard gas proration unit to the Eumont gas zone. This proration unit was approved by the Conservation Commission letter of August 12, 1963, administrative Order No. NSP-657. This order did assign the Northwest Quarter of said Section 13 to this well for Eumont Gas Pool purposes.

Q Explain your diagrammatic sketch, Exhibit 2.

A Exhibit 2 is a diagrammatic sketch showing the triple completion installation. We drilled a twelve and a quarter inch hole to total depth of 1410 feet, and at that point we set 9-5/8" surface casing and circulated cement to the surface with 750 sacks of cement. We continued on with an 8-3/4" hole to a total depth of 6180 feet. At that point we set three strings of 2-7/8" casing, one being set at 4,006 feet, one at 6178 feet, and one at 6179 feet. We cemented all three strings with a total of 1700 sacks of cement and a temperature survey found the top of the cement to be at 2300 feet.

DEARNLEY-MEIER REPORTING SERVICE, Inc.
FARMINGTON, N. M. PHONE 325-1192
SANTA FE, N. M. PHONE 983-3971
ALBUQUERQUE, N. M. PHONE 243-6691



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

We then perforated the Blinebry formation with one shot at various intervals from 5746 to 5878. We perforated the Grayburg formation with one shot at 3806 and 3821, and then two shots per foot through various intervals from 3836 to 3880. We perforated the Penrose or Eumont Gas Pool zone with one shot each at 3626, 3650 and 3688. That is the physical completion of the subject well.

Q Will you give the crude characteristics?

A Referring to what has been marked as Exhibit No. 3, this is a tabulation of the crude characteristics for these three zones. The Eumont Gas Pool is a dry gas zone, the bottom hole pressure has been measured at 616 psi. The gas-oil ratio is 1325 MCF per day, actually there is no liquid produced with this. This was the production test from this well. It is a flowing completion. The Grayburg is a sour-type crude with an estimated gravity of 36 degrees, bottom hole pressure of 628 psi, gas-oil ratio estimated to be too small to measure. The Blinebry completion is an intermediate sweet-type crude with a gravity of 41 degrees, a bottom hole pressure of 2358, and a gas-oil ratio of 718. It is a flowing completion.

Q Do you anticipate any corrosion or paraffin problems in this instance?

A In the Eumont and Blinebry we anticipate no corrosion



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

and no paraffin. We anticipate slight corrosion in the Grayburg and moderate paraffin in the Grayburg.

Q You will cope with that situation in what manner?

A We will inhibit with squeeze treatments as required for the Grayburg, and we'll use scrapers on our rods and pull the wells occasionally in the Grayburg. We have followed this practice on our offset wells in this pool.

Q Had that proved satisfactory?

A Yes.

Q The productive tests?

A The Eumont gas zone was tested on August 12. It flowed 24 hours at the rate of 1325 MCF per day with flowing tubing pressure of 150 psi. The Blinbry on August 19 flowed 18 hours on an 18/64" choke, it flowed 93 barrels of oil with a pressure of 450 psi and gas-oil ratio of 718. The gravity was 41 degrees; the Skaggs, as yet we have no test on this zone, and we anticipate that we will have a capacity in excess of top unit allowable of 40 barrels of oil per day.

Q Will you now explain Exhibit 4 of your log?

A Exhibit 4 is a radioactivity log from the subject well, and the tops of each zone is marked in red and the perforated interval for each zone is marked in red.

Q Will this installation prevent waste and be in the



interest of conservation?

A Yes, sir, it will.

Q Will it protect correlative rights?

A Yes, sir, it will.

Q Were Exhibits 1 through 3 prepared by you or under your direction?

A Yes, sir, they were.

Q Is Exhibit 4 accurate to the best of your knowledge and belief?

A To the best of my knowledge it is.

MR. WHITE: At this time we offer the exhibits, and that concludes our testimony.

MR. UTZ: The Exhibits 1 through 4 will be accepted in this case.

(Whereupon, Applicant's Exhibits 1 through 4 were offered and admitted in evidence.)

CROSS EXAMINATION

BY MR. UTZ:

Q Were centralizers or turbulizers used on the tubing above and below the producing formations?

A Yes.

Q At least a hundred feet above or below?

A Yes. The tubing strings were run in accordance with



the Commission rulings.

Q What producing formation is between the top of the cement at 2300 feet and the bottom of the surface casing at 1310?

A There are none in this interval. The interval contains anhydrite and salt. The top of the salt is at approximately 2520 feet. So, therefore, we got about 200 feet of fill-up into the salt which has been our experience for wells completed in this area. It seems that regardless of the volume of cement used you just can hardly get cement more than 200 feet or so back into the salt section unless it's cased off.

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.

DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3371

ALBUQUERQUE, N. M.
PHONE 243-6691



DEARNLEY-MEIER REPORTING SERVICE, Inc.

FARMINGTON, N. M.
PHONE 325-1182

SANTA FE, N. M.
PHONE 983-3971

ALBUQUERQUE, N. M.
PHONE 243-6691

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 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 10th day of September, 1963.

Ada Dearnley
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 Examiner hearing of Case No. 2826, heard by me on Sept. 4, 1963.
Thos. A. [Signature], Examiner
New Mexico Oil Conservation Commission



DRAFT

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. 2896

Order No. R- 2563

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 September 4, 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 September, 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 L. R. Kershaw Well No. 8, located in Unit D of Section 13, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (tubingless) to produce gas from the Eumont Gas Pool ~~through a parallel string of _____ inch~~ ^{and} ~~and to produce oil from the Skaggs-^{Grayburg} ~~Clorietta~~ and East Weir-Blinbry Pools through ^{three} parallel strings of 2 7/8 -inch casing, all casing strings to be 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 L. R. Kershaw Well No. 8, located in Unit D of Section 13, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (tubingless) to produce gas from the Eumont Gas Pool ~~through a parallel string of _____ inch~~ ^{and} ~~and to produce oil from the Skaggs-Glorieta and East Weir-Blinebry Pools through~~ ^{three} parallel strings of 2 7/8 -inch casing, all casing strings to be 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 East Weir - Blinebry 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.