

CASE No.

5077

Application,  
Transcripts,  
Small Exhibits

ETC.

BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
CONFERENCE ROOM, STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO  
October 17, 1973

EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco,  
Inc. for downhole commingling  
and a dual completion, Lea  
County, New Mexico

Case No. 5077

BEFORE: DANIEL S. NUTTER,  
Examiner

TRANSCRIPT OF HEARING

1 MR. NUTTER: Call Case Number 5077.

2 MR. CARR: Case 5077, Application of Texaco, Inc.  
3 for downhole commingling and a dual completion, Lea  
4 County, New Mexico.

5 MR. KELLEY: Booker Kelley of White, Koch, Kelley  
6 and McCarthy, Santa Fe, on behalf of the Applicant and  
7 I have one witness and ask that he be sworn.

8  
9 EUGENE CRAIG HINRICHs,  
10 was called as a witness, and after being duly sworn,  
11 testified as follows:

12  
13 DIRECT EXAMINATION

14 BY MR. KELLEY:

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

17 A My name is Eugene Craig Hinrichs and I work for Texaco,  
18 Incorporated. I'm the District Production Engineer in  
19 Hobbs, New Mexico.

20 Q Have you previously qualified as an expert witness in  
21 the field of petroleum and engineering before this  
22 commission?

23 A No, I have not.

24 Q Would you give the Examiner a resume of your professional  
25 educational background?

1 A I received a Bachelor of Civil Engineering Degree from  
2 Georgia Tech in 1968 and worked for five years with  
3 Texaco in different engineering positions, involving  
4 production and drilling operations in West Texas and  
5 Southeastern New Mexico.

6 My present position is District Production Engineer  
7 in West Texas and Southeastern New Mexico.

8 MR. KELLEY: Are the witness's qualifications  
9 acceptable?

10 MR. NUTTER: Yes, they are.

11 Q (By Mr. Kelley) Referring to the Plat, which has been  
12 marked Exhibit Number 1, would you briefly state what  
13 Texaco seeks by this application?

14 A Texaco seeks authority to commingle in the well bore  
15 production from the Skaggs-Glorieta and East Weir-Blinebry  
16 Pools in C. H. Weir "B" Well number 4. This well is  
17 located 1980 from the south line and 660 from the east  
18 line of Section 11, Township 20 South, Range 37 East,  
19 Lea County.

20 The subject lease is outlined in yellow with the  
21 subject well designated by the red arrow and in addition  
22 to the well bore commingling, we also wish to dually  
23 complete in such a manner as to permit the production of  
24 these commingled fluids and hydrocarbon from the East  
25 Weir Tubb field through parallel strings of tubing.

- 1 Q What is the present status of the well, what pools --
- 2 A It is currently producing as a triple completion from the
- 3 Eumont Gas, Skaggs-Glorieta and Weir-Blinebry east with
- 4 the Skaggs Drinkard abandoned below a permanent bridge
- 5 plug.
- 6 Q What's going to happen to the Eumont gas?
- 7 A This zone will be squeezed with cement.
- 8 Q Can you give the Examiner the order number allowing the
- 9 present multiple completion?
- 10 A It was administrative order MC-1918 issued September 1,
- 11 1970.
- 12 Q What is the current daily oil and water production from
- 13 the proposed zones that will be commingled?
- 14 A The production from the Skaggs-Glorieta is 12 barrels
- 15 of oil per day and three barrels of water per day. And
- 16 the production from the Weir-Blinebry East is five barrels
- 17 of oil per day and no water.
- 18 Q And did Texaco furnish current C-116' forms with their
- 19 application?
- 20 A Yes, they did.
- 21 Q Now, referring to what has been marked Exhibit 2, will
- 22 you go through the pertinent data there?
- 23 A This is for the Skaggs-Glorieta and Weir-Blinebry East
- 24 zones, which are to be commingled. It shows that both
- 25 zones are currently being pumped, shows the estimated

1 bottom hole pressure of each zone.

2 I'd like to point out that there will be no cross  
3 flow from the zone since they will be pumped down. We  
4 can produce both zones with less than 100 PSI, producing  
5 pressure.

6 Also it shows fluid characteristics of the  
7 different zones. The gravities are similar and they are  
8 currently being commingled on the surface with no  
9 detrimental effects.

10 I'd like to point out also that these two zones  
11 are downhole commingled in C. H. Weir "B", well number 5,  
12 on the plat, Exhibit 1 on the same lease northwest offset.

13 Q There hasn't been any problem with that well, I take it?

14 A No, sir, none.

15 Q Now, you have an Exhibit Number 3 that shows your decline  
16 curves on these zones, is that right?

17 A Yes. This shows that the wells are on an established  
18 decline 14 percent for the Glorieta and 16 percent for  
19 the Weir-Blinebry East and they are declining in such a  
20 manner that a production allocation can be made in the  
21 future.

22 The recommended one at this time would be 71 percent  
23 allocated to the Weir-Blinebry East -- beg your pardon  
24 -- 29 percent to the Weir-Blinebry East and 71 percent  
25 to the Skaggs-Glorieta.

- 1 Q That's based on what?
- 2 A On current producing rate.
- 3 Q Now, what would you say the economic limits of both of
- 4 these wells are on a daily basis?
- 5 A It would be three barrels of oil per day per zone.
- 6 Q Do you have an estimate of what additional production
- 7 you will be able to get if you commingle?
- 8 A Yes, would be 6,600 barrels.
- 9 Q Now, turning to the multiple completion aspect of this
- 10 application, referring to your diagrammatic sketch of
- 11 your present completion and your proposed completion; would
- 12 you explain what you will do here?
- 13 A What we're going to do would be to remove the -- if
- 14 you'll refer to Exhibit 4 -- remove the Baker Model "FA"
- 15 Packer and Model "D" Packer set at 5380 and squeeze the
- 16 Eumont Gas Zone and abandon it and after that, we will
- 17 recomplete in the Weir Tubb East with perforations from
- 18 6430 to 6510 and we will produce the Weir Tubb East
- 19 beneath the Baker Model "D" to permanent Packer out
- 20 2 3/8 tubing and this will be isolated from the Weir-
- 21 Blinebry East and the Skaggs-Glorieta, which will be
- 22 produced, commingled out 2 3/8 tubing above the Baker
- 23 Model Packer and at this time, after both zones are
- 24 completed, we'll run zone segregation tests to assure
- 25 there's no communication between the Tubb and the

1 commingled Blinebry-Glorieta.

2 Q Now, the Tubb East is a gas zone, is that correct?

3 A Yes, it is.

4 Q Do you feel that the proposed installation will effectively  
5 segregate the hydrocarbons?

6 A Yes, I do.

7 Q Are there similar multiple completions in the area?

8 A Yes, they're M. B. Weir B Number 7 currently a triple  
9 completion in the Skaggs Drinkard.

10 MR. NUTTER: Where is that well, please?

11 A It's in Section 12, the southern 1/4 of Section 12,  
12 the M. B. Weir B lease offsetting the subject.

13 Well Number 7 and Number 10 both are triply  
14 commingled and the Skaggs Drinkard, Weir-Blinebry East  
15 and Weir Tubb East Fields.

16 Q (By Mr. Stevens) Now, in your opinion, will the granting  
17 of both aspects of this application allow you to produce  
18 oil that would otherwise be left in place and not  
19 adversely effect the correlative rights of other operators?

20 A Yes, sir.

21 Q Have all offset operators been notified of both phases  
22 of this application?

23 A Yes, they have.

24 Q And that's shown on your application, isn't that correct?

25 A Yes.



1 Q Were Exhibits 1 through 5 prepared by you or under your  
2 supervision?

3 A Yes, they were.

4 MR. STEVENS: I would move at this time the  
5 introduction of Texaco Exhibits 1 through 5.

6 MR. NUTTER: Texaco Exhibits 1 through 5 will be  
7 admitted in evidence.

8 MR. STEVENS: We have no further direct testimony,  
9 Mr. Examiner.

10 MR. NUTTER: Are there any questions of the  
11 witness?

12 (No response)

13

14

CROSS EXAMINATION

15

BY MR. NUTTER:

16 Q Are there any other wells completed in this Weir Tubb  
17 East in this area?

18 A Not on this particular lease, but there are on the  
19 M. B. Weir B Number 7.

20 Q That's the one you were talking about that was completed?

21 A That's right.

22 Q What do you expect as far as production is concerned in  
23 this well?

24 A We're expecting top allowable gas. According to our --  
25 we have a cross section, but I don't have it with me,

1 but it should be up structure. There is high gas  
2 production out there and this well is up structure and  
3 we're expecting top allowable gas.

4 Q Now, this Skaggs Drinkard shows some old perforations  
5 underneath the cast iron bridging plug. How long ago  
6 was that abandoned?

7 A It was abandoned October 20th of 1970.

8 Q That's probably when this triple completion in the other  
9 three zones --

10 A Yes, sir, I think so.

11 Q And separation of the Weir Tubb and the two commingled  
12 zones would be achieved by Model "D" Packer, is that  
13 correct?

14 A Yes, sir, that's right.

15 MR. NUTTER: Are there any further questions of  
16 the witness?

17 (No response)

18 MR. NUTTER: You may be excused.

19 (Witness excused)

20 MR. NUTTER: Do you have anything further, Mr.  
21 Kelley?

22 MR. KELLEY: Not in this case.

23 MR. NUTTER: Does anyone have anything they wish  
24 to offer in Case Number 5077?

25 (No response)

dearnley, meier & associates

209 SIMMS BLDG., P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 87103  
1216 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108

PAGE 11

MR. NUTTER: We'll take the case under  
advisement.

1 STATE OF NEW MEXICO )  
2 ) ss  
3 COUNTY OF BERNALILLO )

4 I, Donna Keith, a Certified Shorthand Reporter, in  
5 and for the County of Bernalillo, State of New Mexico do  
6 hereby certify that the foregoing and attached Transcript of  
7 Hearing before the New Mexico Oil Conservation Commission was  
8 reported by me; and that the same is a true and correct  
9 record of the said proceedings to the best of my knowledge,  
10 skill and ability.

11 Donna Keith  
12 CERTIFIED SHORTHAND REPORTER

13  
14  
15  
16  
17 I do hereby certify that the foregoing is  
18 a complete and correct transcript of  
19 the hearing held on 10/17/73 at 5077  
20 heard at 73  
21 Assistant  
22 New Mexico Oil Conservation Commission  
23  
24  
25

I N D E XWITNESSPAGE

EUGENE CRAIG HINRICHS

Direct Examination by Mr. Kelley

3

Cross Examination by Mr. Nutter

9

E X H I B I T SAPPLICANT'SOFFEREDADMITTED

Exhibit 1

Plat

9

9

Exhibit 2

Data Sheet

9

9

Exhibit 3

Production Decline Chart

9

9

Exhibit 4

Present Completion  
Schematic

9

9

Exhibit 5

Proposed Completion  
Schematic

9

9



## OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO  
P. O. BOX 2048 - SANTA FE  
87501

November 16, 1973

I. R. TRUJILLO  
CHAIRMAN

LAND COMMISSIONER  
ALEX J. ARMijo  
MEMBER

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

Mr. Booker Kelly  
White, Koch, Kelly & McCarthy  
Attorneys at Law  
Post Office Box 787  
Santa Fe, New Mexico

Re: CASE NO. 5077  
ORDER NO. R-4653  
Applicant:  
Texaco Inc.

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.*

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

X

Hobbs OCC \_\_\_\_\_  
Artesia OCC \_\_\_\_\_  
Aztec OCC \_\_\_\_\_

Other \_\_\_\_\_  
\_\_\_\_\_

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN AND TO THE ORDER OF THE COMMISSION  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR  
THE PURPOSE OF CONSIDERING:

CASE NO. 5077  
Order No. R-4653

APPLICATION OF TEXACO INC. FOR  
DOWNHOLE COMMINGLING AND 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 October 17, 1973, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 16th day of November, 1973, 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., is the owner and operator of the C. H. Weir "B" Well No. 4, located in Unit I of Section 11, Township 20 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks authority to commingle Skaggs-Glorieta and East Weir-Blinbry production within the wellbore of the above-described well and to dually complete said well in such a manner as to produce said commingled production and production from the East Weir-Tubb Pool through parallel strings of 2 3/8-inch tubing, achieving separation of the commingled zones and East Weir-Tubb Pool by means of a packer set at approximately 6350 feet.
- (4) That from the Skaggs-Glorieta zone, the subject well is capable of low marginal production only.
- (5) That from the East Weir-Blinbry zone, the subject well is capable of low marginal production only.
- (6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.
- (7) That the reservoir characteristics of each of the subject

zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(8) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time the subject well is shut-in for 7 consecutive days.

(9) That in order to allocate the commingled production to each of the commingled zones in the subject well, 70 percent of the commingled oil production should be allocated to the Skaggs-Glorieta zone and 30 percent of the commingled oil production to the East Weir-Blinbry zone.

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

(11) 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 commingle Skaggs-Glorieta and East Weir-Blinbry production within the wellbore of the C. H. Weir "B" Well No. 4 located in Unit I of Section 11, Township 20 South, Range 37 East, NMPM, Skaggs-Glorieta and East Weir-Blinbry Pools, Lea County, New Mexico.

(2) That 70 percent of the commingled oil production shall be allocated to the Skaggs-Glorieta zone and 30 percent of the commingled oil production shall be allocated to the East Weir-Blinbry zone.

(3) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

(4) That applicant is hereby authorized to dually complete said well in such a manner as to permit the production of those aforesaid commingled fluids and those hydrocarbons from the East Weir-Tubb Oil Pool through parallel strings of 2 3/8-inch tubing, with separation of the commingled Glorieta and Blinbry zones and the Tubb zone achieved by means of a packer set at 6350 feet.

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

PROVIDED FURTHER, that the applicant shall take packer leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the East Weir-Tubb Pool.



-3-

CASE NO. 5077  
Order No. R-4653

(5) That Administrative Order MC-1918, which previously authorized the triple completion of the subject well to produce from the Eumont Gas Pool and the Skaggs-Glorieta and East Weir-Blinbry Pools, is hereby superseded.

(6) 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



*I. R. Trujillo*  
I. R. TRUJILLO, Chairman

ALEX J. ARMSTRONG, Member

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

S E A L

jr/

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 17, 1973

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 Richard L. Stamets, Alternate Examiner:

ALLOWABLE: (Continued from October 3, 1973, Examiner Hearing)

- (1) Consideration of the allowable production of gas for November, 1973, from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
- (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for November, 1973.

CASE 5075: Application of Hillin Production Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its JCW State Com. Well No. 1 located in Unit C of Section 2, Township 20 South, Range 28 East, Eddy County, New Mexico, in such a manner as to produce gas from an undesignated Strawn gas pool and from the Winchester-Morrow Gas Pool through the casing-tubing annulus and tubing, respectively.

CASE 5076: Application of David Fasken for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a well at an unorthodox location 1980 feet from the North line and 660 feet from the West line of Section 7, Township 18 South, Range 26 East, West Atoka-Morrow Gas Pool, Eddy County, New Mexico, the N/2 of said Section 7 to be dedicated to the well.

CASE 5077: Application of Texaco Inc. for downhole commingling and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle in the wellbore production from the Skaggs-Glorieta and East Weir-Blinebry Pools in its C. H. Weir "B" Well No. 4 located in Unit I of Section 11, Township 20 South, Range 37 East, Lea County, New Mexico, and to dually complete said well in such a manner as to permit the production of the aforesaid commingled fluids and hydrocarbons from the East Weir-Tubb Oil Pool through parallel strings of tubing.

CASE 5078: Application of Franklin, Aston & Fair for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter its McIntyre Well No. 6-A, an old hole located 990 feet from the South line and 1650 feet from the East line of Section 20, Township 17 South, Range 30 East, Eddy County, New Mexico, in order to complete same as a Morrow gas well, the E/2 of said Section 20 to be dedicated to the well.

CASE 5079: Application of May Petroleum Inc. for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a proposed well to be drilled at a point 1650 feet from the South line and 1129 feet from the East line of Section 31, Township 11 South, Range 38 East, North Gladiola-Devonian Pool, Lea County, New Mexico.

CASE 5080: Application of Horizon Oil & Gas Company of Texas for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State 28 Well No. 2 located in Unit K of Section 28, Township 17 South, Range 29 East, Eddy County, New Mexico, in such a manner as to permit the production of gas from the Grayburg-Morrow Gas Pool and an undesignated Atoka Gas Pool through parallel strings of tubing.

CASE 5081: Application of Mesa Petroleum Company for a dual completion and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Skelly State Well No. 1 located in Unit I of Section 14, Township 16 South, Range 35 East, in such a manner as to produce oil from the North Shoe Bar-Wolfcamp Pool and gas from an undesignated Morrow gas pool through parallel strings of tubing. Applicant further seeks the promulgation of temporary special rules for said North Shoe Bar-Wolfcamp Pool, including a provision for 160-acre drilling and proration units.

CASE 5082: Application of Mesa Petroleum Company for a dual completion, creation of a new oil pool, assignment of a discovery allowable, and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the North Shoe Bar-Strawn Pool for its Hillburn Well No. 1 located in Unit E of Section 13, Township 16 South, Range 35 East, Lea County, New Mexico, and the assignment of approximately 56,440 barrels of oil discovery allowable to said well; applicant also seeks approval for the dual completion of said well in such a manner as to permit the production of oil from the North Shoe Bar-Wolfcamp Pool and the North Shoe Bar-Strawn Pool through parallel strings of tubing; applicant further seeks the promulgation of temporary special rules for said pool, including a provision for 160-acre drilling and proration units.

CASE 5083: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Blinbry-Paddock and Tubb production in the well-bore of its C. H. Lockhart Federal Well No. 3 located in Unit O of Section 18, Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 5084: Southeastern nomenclature case calling for the extension of certain pools in Lea and Roosevelt Counties, New Mexico:

(Case 5084 continued from page 2)

(a) Extend the Antelope Ridge-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 34 EAST, NMPM  
Section 2: S/2

(b) Extend the Antelope Ridge-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 34 EAST, NMPM  
Section 2: S/2  
Section 3: S/2  
Section 4: S/2

(c) Extend the Bluit-San Andres Associated Pool in Roosevelt County, New Mexico, to include therein:

TOWNSHIP 8 SOUTH, RANGE 38 EAST, NMPM  
Section 5: SW/4

(d) Extend the EK Yates Seven Rivers-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM  
Section 8: NW/4

(e) Extend the Hat Mesa-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM  
Section 14: E/2

(f) Extend the Monument-Paddock Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM  
Section 16: S/2  
Section 17: E/2

(g) Extend the South Salt Lake-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM  
Section 30: All

(h) Extend the Triple X-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 32 EAST, NMPM  
Section 12: NE/4

Examiner Hearing - Wednesday - October 17, 1973

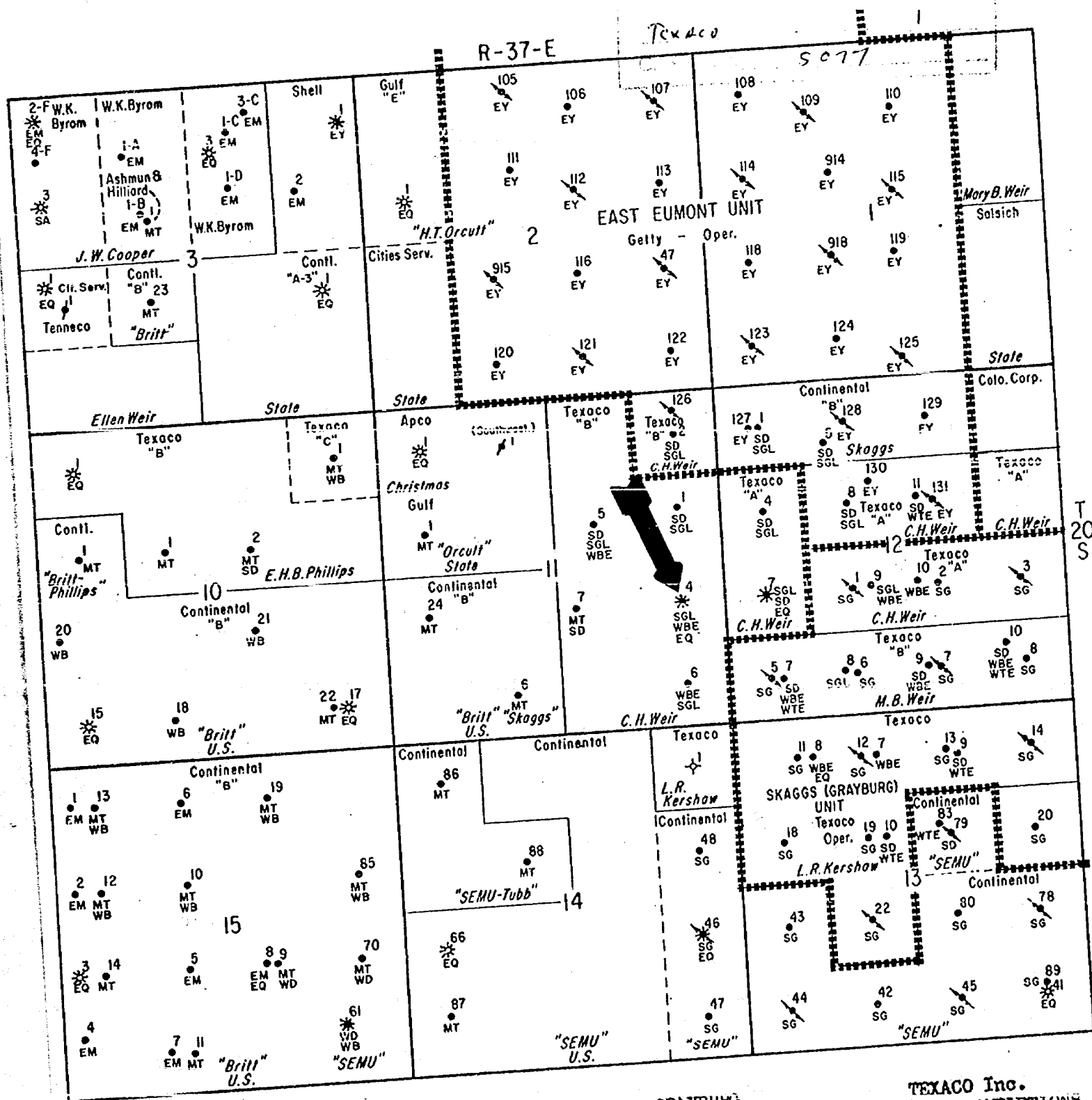
Docket No. 29-73

-4-

(Case 5084 continued from page 3)

(1) Extend the Williams-Pennsylvanian Pool in Lea County, New Mexico,  
to include therein:

TOWNSHIP 13 SOUTH, RANGE 32 EAST, NMPM  
Section 29: NE/4



# LEGEND:

EM - EUNICE MONUMENT GRAYBURG SAN ANDRES  
 EQ - EUMONT QUEEN GAS  
 EY - EUMONT YATES SEVEN RIVERS  
 MT - MONUMENT TUBB  
 SA - SAN ANDRES MIDDLE GAS  
 SD - SKAGGS DRINKARD  
 SG - SKAGGS GRAYBURG  
 SGL - SKAGGS GLORIETA  
 WB - WEIR BLINEBRY  
 WBE - WEIR BLINEBRY EAST  
 WD - WEIR DRINKARD  
 WTE - WEIR TUBB EAST

TEXACO Inc.  
 OIL & GAS COMPLETIONS  
 IN PART OF  
 T-20S R-37-E  
 LEA COUNTY, NEW MEXICO  
 CPC/FMR 5-25-72  
 Rev.: 10-8-73

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO Inc.

Address: Box 728, Hobbs, New Mexico 88240

Lease and Well No.: C. H. Weir 'B' Well No. 4

Location: Unit I, Section 11, T-20-S, R-37-E, Lea County, New Mexico

DATE	10.2.73
TIME	5:22

WELL DATA

	<u>Upper Pool</u>	<u>Middle Pool</u>	<u>Lower Pool</u>
Name of Pool	<u>Skaggs Glorieta</u>	<u>Weir Blinberry East</u>	
Producing Method	<u>Pumping</u>	<u>Pumping</u>	
BHP	<u>500 psi</u>	<u>1000 psi</u>	
Type Crude	<u>Sour</u>	<u>Sour</u>	
Gravity	<u>36.8</u>	<u>37.0</u>	
GOR Limit	<u>2000; 1</u>	<u>2000; 1</u>	
Completion Interval	<u>5303'-5313'</u>	<u>5783'-5975'</u>	
Current Test Date	<u>8-20-73</u>	<u>8-6-73</u>	
Oil	<u>12</u>	<u>5</u>	
Water	<u>3</u>	<u>0</u>	
GOR	<u>7500</u>	<u>4400</u>	
Selling Price of Crude - \$/BBL.	<u>3.62</u>	<u>3.62</u>	
Daily Income - \$/Day	<u>43.44</u>	<u>18.10</u>	

COMMINGLED DATA:

Gravity of Commingled Crude 36.9

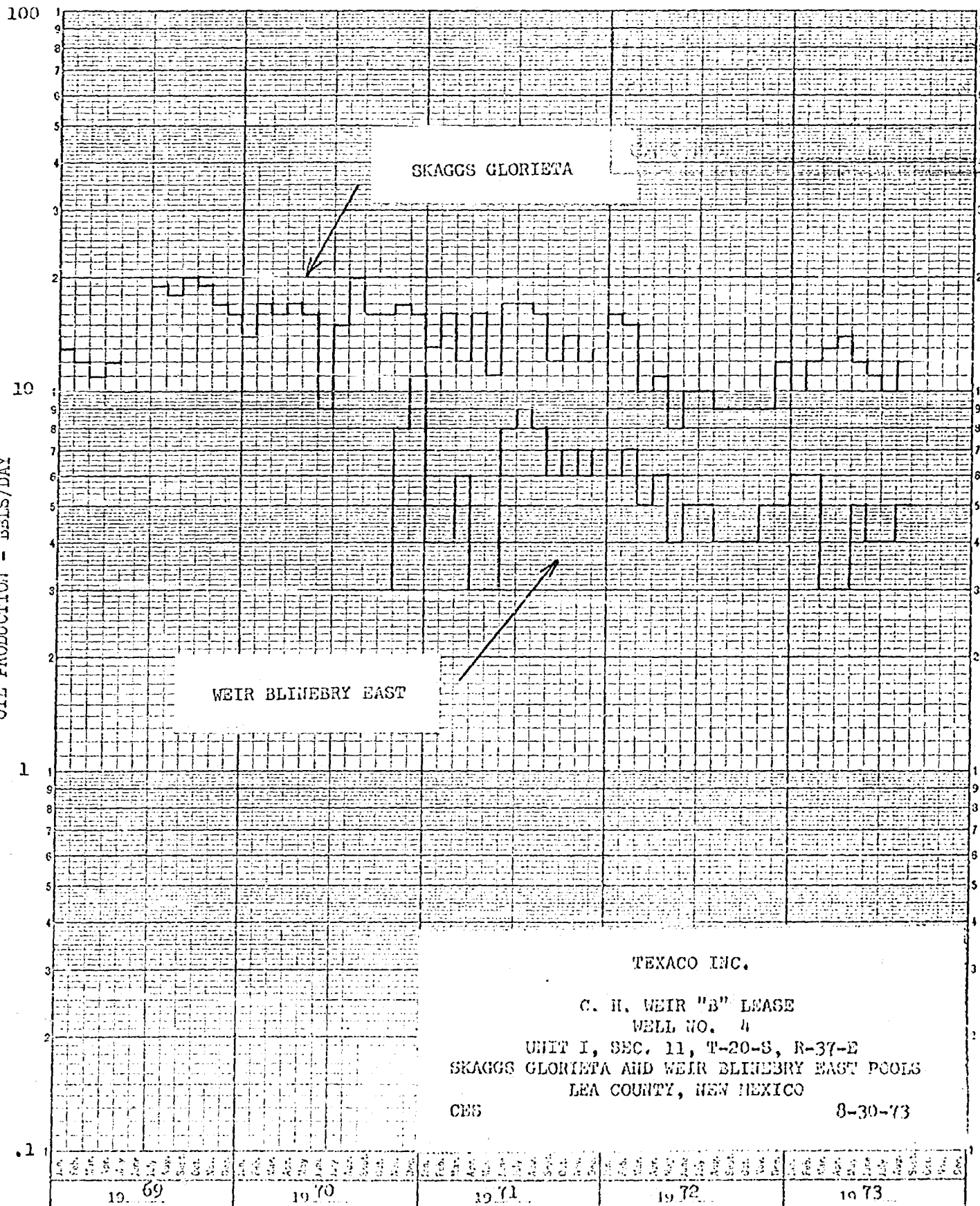
Selling Price of Commingled Crude - \$/BBL. 3.62

Daily Income - \$/Day 61.54

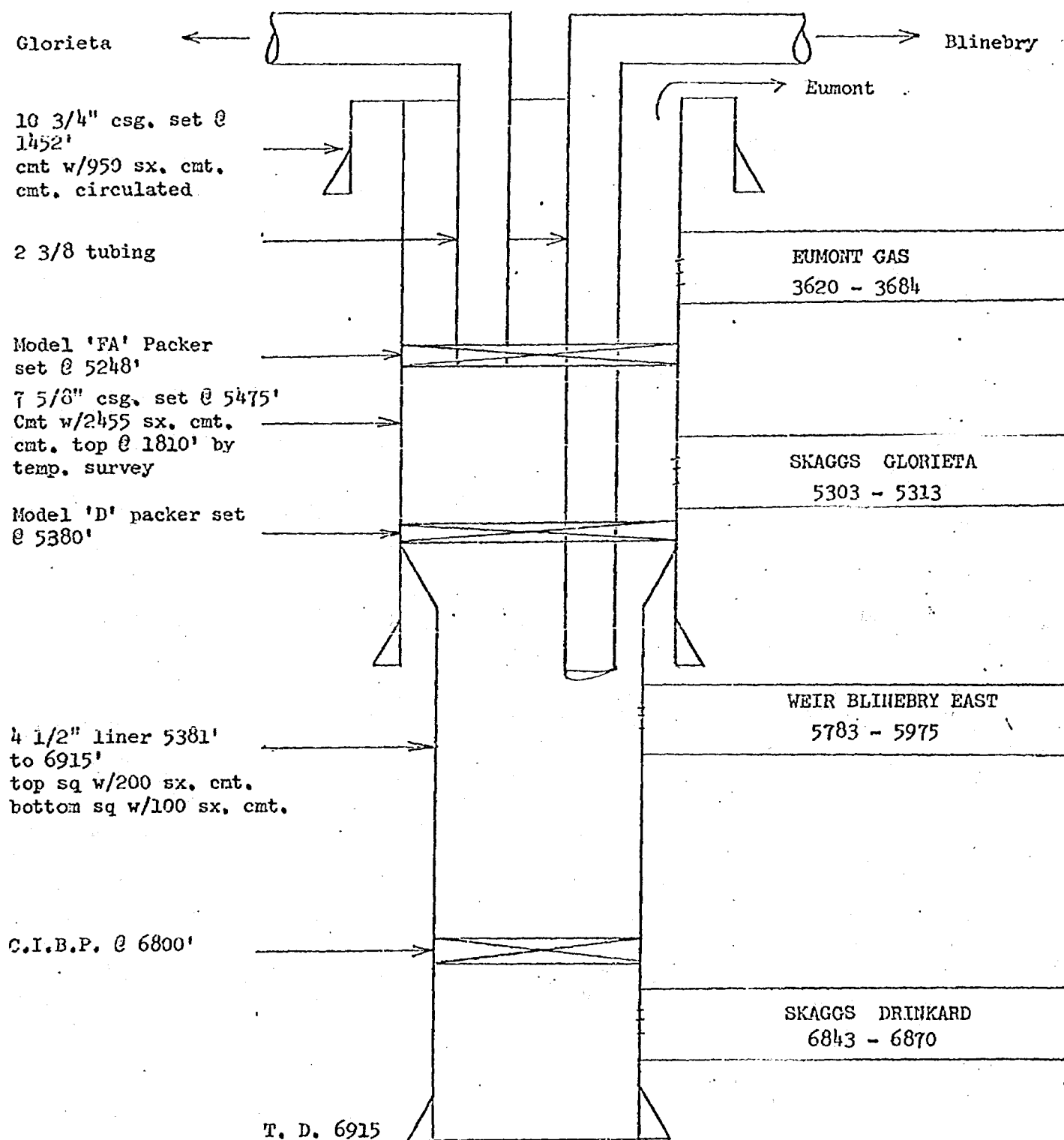
Net (Gain) (Loss) from Wellbore Commingling - \$/Day None-Production currently being commingled  
based on current producing rates. on surface.

LOG 5 YEARS BY MONTHS 46 6690  
X 5 LOG CYCLES  
NEUFEL & ESER CO.

OIL PRODUCTION - BBL/DAY







DIAGRAMATIC SKETCH

PRESENT COMPLETION

TEXACO INC.

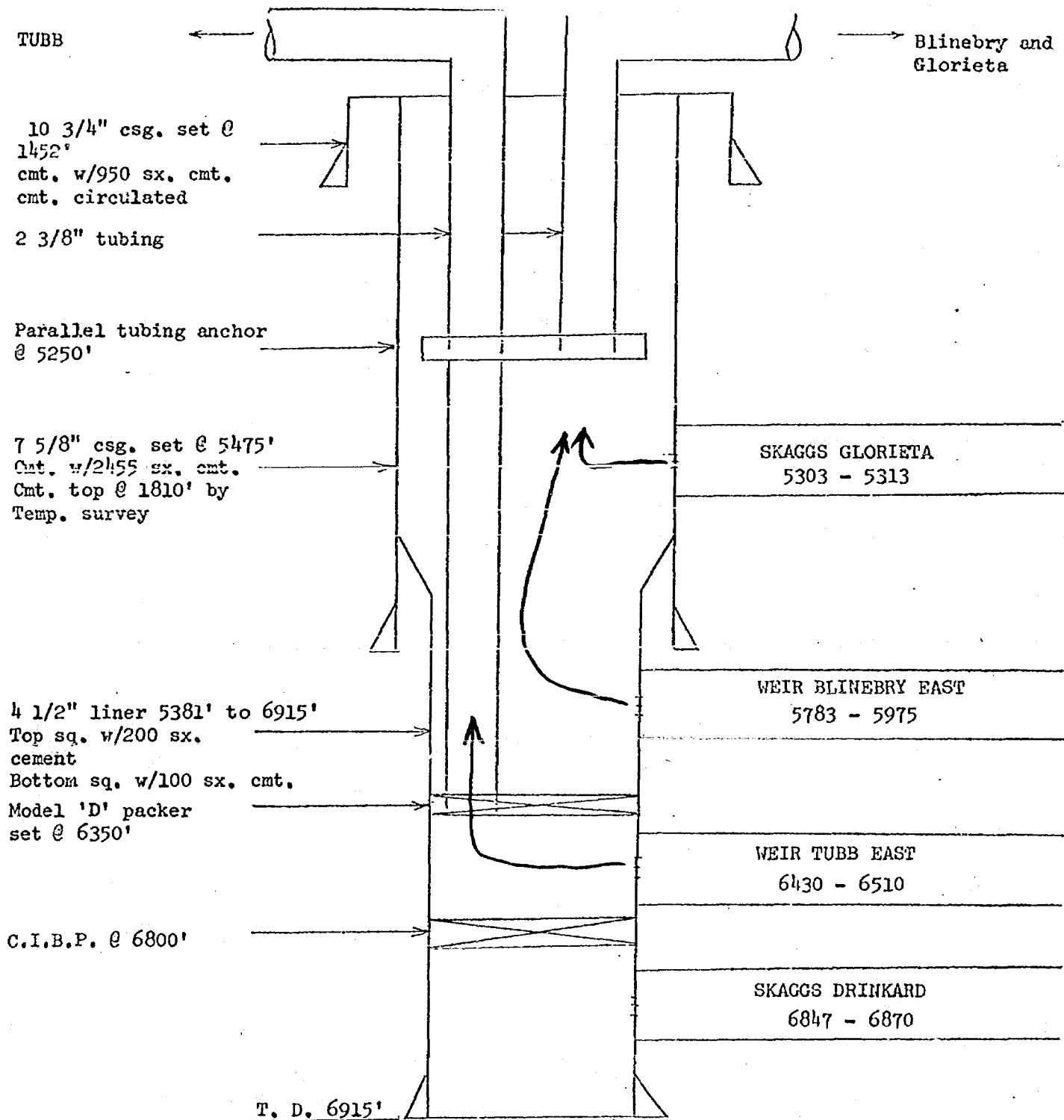
C. H. WEIR "B" WELL NO. 4

EUMONT GAS, SKAGGS GLORIETA AND WEIR BLINEBRY EAST POOLS

LEA COUNTY, NEW MEXICO

TEXACO

5077



DIAGRAMATIC SKETCH

PROPOSED COMPLETION

TEXACO INC.

C. H. WIER "B" WELL NO. 4

SKAGGS GLORIETA, WEIR BLINEBRY EAST, AND WEIR TUBB EAST POOLS

LEA COUNTY, NEW MEXICO

DATE	TX	NO.	5
TIME	10:00	AM	77



TEXACO INC.  
DRAWER 728  
HOBBS, NEW MEXICO 88240

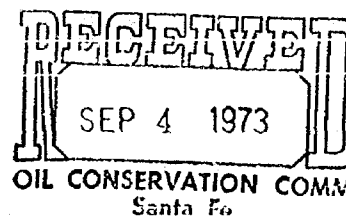
August 31, 1973

Wellbore Commingling and Dual Completion  
C. H. Weir "B" Well No. 4  
Skaggs Glorieta, Weir Blinebry East, and  
Weir Tubbs East Pools  
Lea County, New Mexico

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

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

Gentlemen:



TEXACO Inc. respectfully requests administrative approval of the attached applications for:

1. The commingling in the wellbore of production from the Skaggs Glorieta and the Weir Blinebry East Pools.
2. The dual completion of the commingled Skaggs Glorieta and Weir Blinebry East Pools with the Weir Tubb East Pool.

TEXACO's C. H. Weir "B" Well No. 4, located in Unit I of Section 11, Township 20 South, Range 37 East, Lea County, New Mexico, is presently a triple completion in the Eumont Gas, Skaggs Glorieta and Weir Blinebry East Pools as permitted by administrative order no. MC-1918. TEXACO Inc. proposes to perform the following remedial work on the subject well:

1. Abandon the Eumont Gas Zone by squeezing the perforated interval with cement.
2. Complete the well in the Weir Tubb East Pool.
3. Downhole commingle the Skaggs Glorieta and Weir Blinebry East Pools.

DOCKET MAILED

Date 10-5-73

New Mexico Oil Conservation Commission

(2)

August 31, 1973

Production from the Skaggs Glorieta and Weir Blinebry East Pools is presently commingled at the surface in a common tank battery. The two fluids are compatible as the surface commingling has not caused the development of undesirable precipitates or scale. Due to the surface commingling, no loss of revenue will be experienced from downhole commingling.

All offset operators have been notified of TEXACO's intentions by copy of this application.

Your cooperation in approval of this application is appreciated.

Yours very truly,

  
J. V. Gannon

CES/kw  
NMOCC-Hobbs  
Offset Operators  
Attachments

Case 5077

OIL CONSERVATION COMMISSION  
I DISTRICT

OIL CONSERVATION COMMISSION  
BOX 871  
SANTA FE, NEW MEXICO

DATE September 5, 1973

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

Gentlemen:

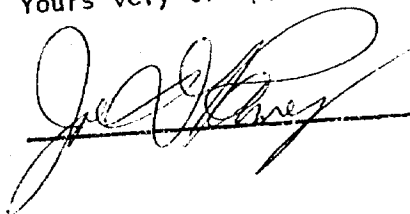
I have examined the application dated 9/4/73  
for the Texaco Inc. C. H. Weir "B" #4-I 11-20-37  
Operator Lease and Well No. S-T-R

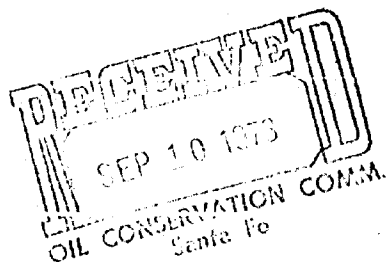
and my recommendations are as follows:

O.K.---J.D.R.

O.K.---J.W.R.

Yours very truly,





RECEIVED  
SEP 4 1973  
OIL CONSERVATION COMM

SEP 4 1973

OIL CONSERVATION COM

Operator <b>TEXACO Inc.</b>		County <b>Lea</b>	Date <b>August 31, 1973</b>
Address <b>Box 728, Hobbs, New Mexico 88240</b>		Lease <b>C. H. Weir "B"</b>	Well No. <b>4</b>
Location of Well <b>I</b>	Unit <b>11</b>	Township <b>T-20-S</b>	Range <b>R-37-E</b>

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES X NO
2. If answer is yes, identify one such instance: Order No. R-2181 MC-1597 ; Operator Lease, and Well No.: TEXACO Inc.  
C. H. Weir "B" Well No. 5 & M. B. Weir "B" Well No. 10

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Skaggs Glorieta	Weir Blinebry East	Weir Tubb East
b. Top and Bottom of Pay Section (Perforations)	5303 to 5313	5783 to 5975	6430 to 6510
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Artificial lift	Artificial lift	Flowing

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

Yes	No
-----	----

- ☒ ☐ a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- ☒ ☐ 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.
- ☒ ☐ c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.\*
- ☐ ☒ \*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.)
- \*Submitted to Oil Conservation Commission on previous application.

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Continental Oil Company, Box 431, Permian Bldg., Midland, Texas 79701

Cities Service Oil Company, Box 4906, 200 Vaughn Bldg., Midland, Texas 79701

Gulf Oil Company, Box 1150, Gulf Bldg., Midland, Texas 79701


Exxon Oil Company, Box 1600, Midland, Texas 79701

Southwest Production Company, 3108 Southland Center, Dallas, Texas

APCO Oil Corporation, 17th Floor, Houston Natural Gas Bldg., Houston, Texas

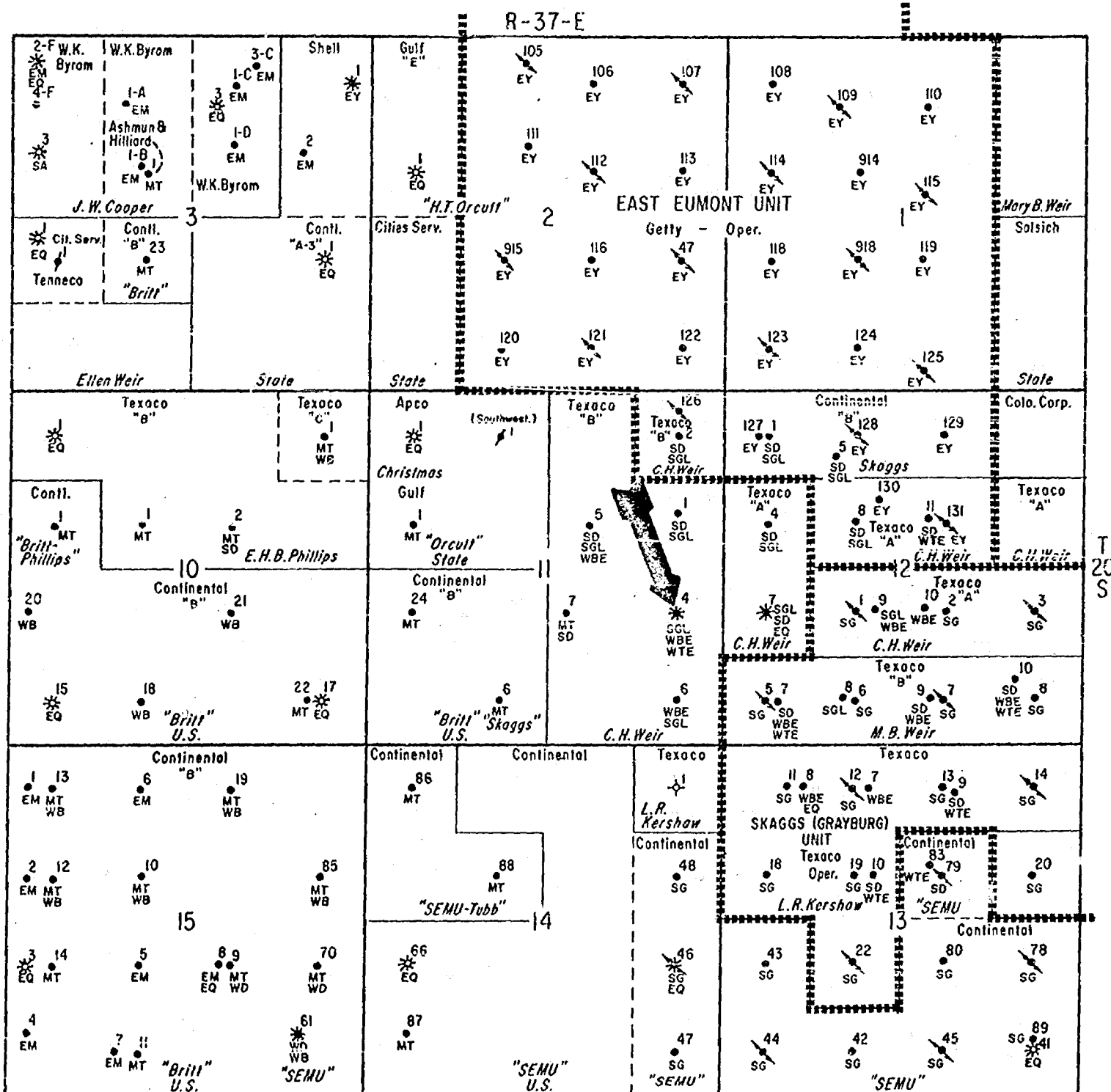
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO \_\_\_\_\_. If answer is yes, give date of such notification \_\_\_\_\_.

CERTIFICATE: I, the undersigned, state that I am the Assistant District Supt. of the TEXACO Inc. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

  
Signature

\*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

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

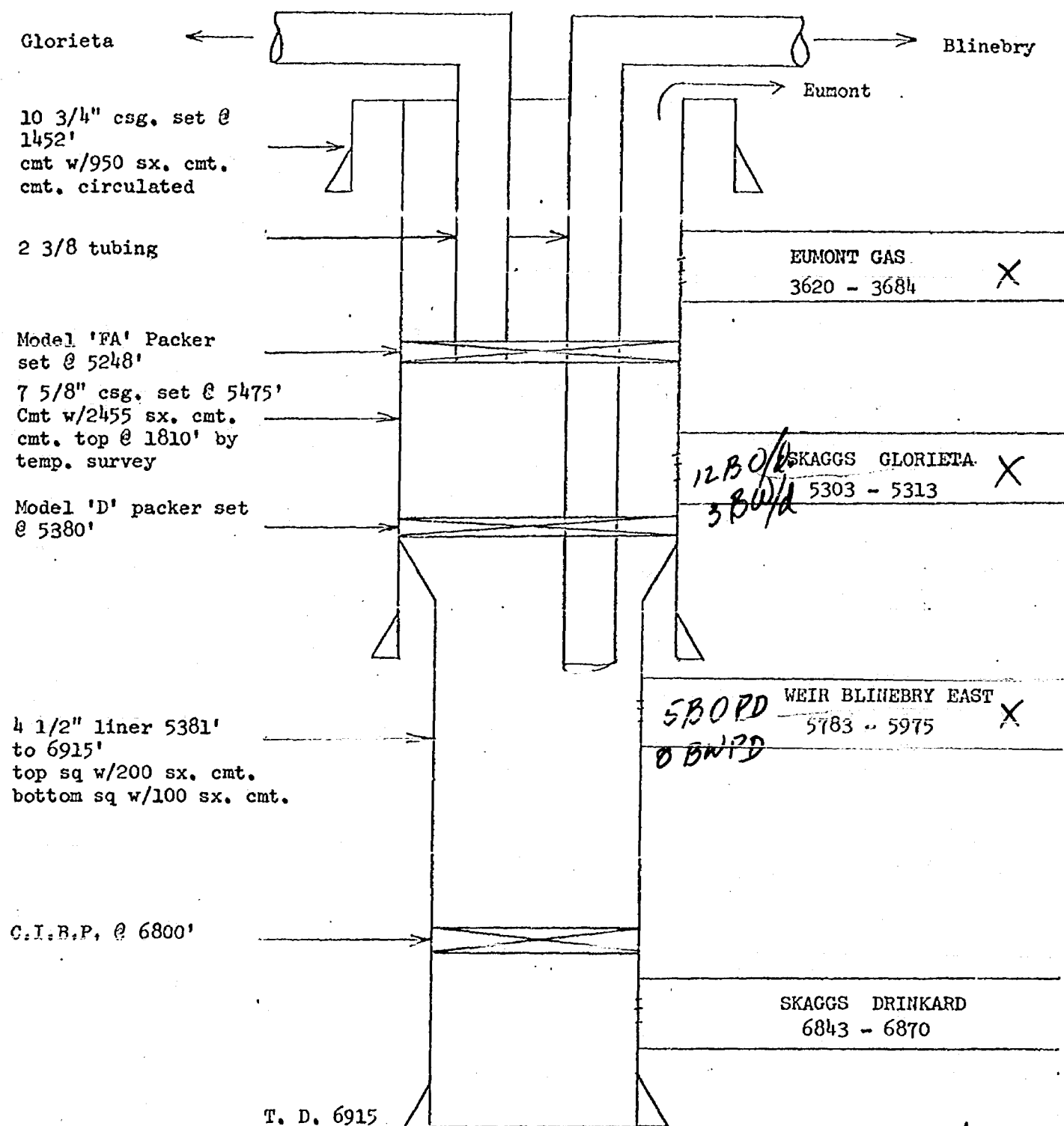


**LEGEND :**

EM - EUNICE MONUMENT GRAYBURG SAN ANDRES	SG - SKAGGS GRAYBURG
EQ - EUMONT QUEEN GAS	SGL - SKAGGS GLORIETA
EY - EUMONT YATES SEVEN RIVERS	WB - WEIR BLINEBRY
MT - MONUMENT TUBB	WBE - WEIR BLINEBRY EAST
SA - SAN ANDRES MIDDLE GAS	WD - WEIR DRINKARD
SD - SKAGGS DRINKARD	WTE - WEIR TUBB EAST

TEXACO Inc.  
 OIL & GAS COMPLETIONS  
 IN PART OF  
 T-20S R-37-E  
 LEA COUNTY, NEW MEXICO  
 CPC/FMR 5-25-72

Page 5077



DIAGRAMATIC SKETCH

PRESENT COMPLETION

TEXACO INC.

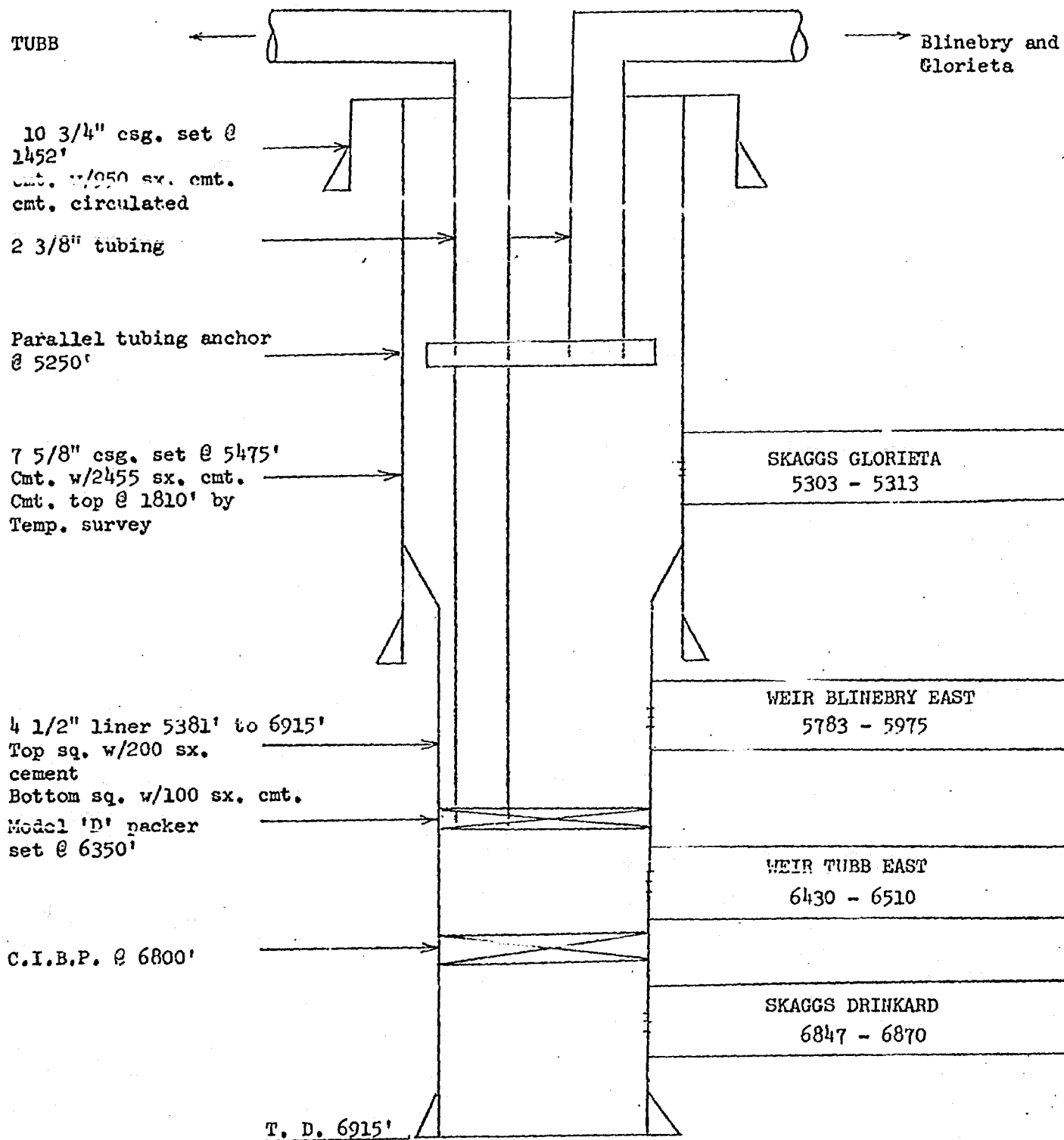
C. H. WEIR "B" WELL NO. 4

EUMONT GAS, SKAGGS GLORIETA AND WEIR BLINEBRY EAST POOLS

LEA COUNTY, NEW MEXICO

Case 5-077





DIAGRAMATIC SKETCH

PROPOSED COMPLETION

TEXACO INC.

C. H. WIER "B" WELL NO. 4

SKAGGS GLORIETA, WEIR BLINEBRY EAST, AND WEIR TUBB EAST POOLS

LEA COUNTY, NEW MEXICO

5-077

# DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO Inc.

Address: Box 728, Hobbs, New Mexico 88240

Lease and Well No.: C. H. Weir 'B' Well No. 4

Location: Unit I, Section 11, T-20-S, R-37-E, Lea County, New Mexico

## WELL DATA

	<u>Upper Pool</u>	<u>Middle Pool</u>	<u>Lower Pool</u>
Name of Pool	<u>Skaggs Glorieta</u>	<u>Weir Blinebry East</u>	
Producing Method	<u>Pumping</u>	<u>Pumping</u>	
BHP	<u>500 psi</u>	<u>1000 psi</u>	
Type Crude	<u>Sour</u>	<u>Sour</u>	
Gravity	<u>36.8</u>	<u>37.0</u>	
GOR Limit	<u>2000; 1</u>	<u>2000; 1</u>	
Completion Interval	<u>5303'-5313'</u>	<u>5783'-5975'</u>	
Current Test Date	<u>8-20-73</u>	<u>8-6-73</u>	
Oil	<u>12</u>	<u>5</u>	
Water	<u>3</u>	<u>0</u>	
GOR	<u>7500</u>	<u>4400</u>	
Selling Price of Crude - \$/BBL.	<u>3.62</u>	<u>3.62</u>	
Daily Income - \$/Day	<u>43.44</u>	<u>18.10</u>	

## COMMINGLED DATA:

Gravity of Commingled Crude 36.9

Selling Price of Commingled Crude - \$/BBL. 3.62

Daily Income - \$/Day 61.54

Net (Gain) (Loss) from Wellbore Commingling - \$/Day None-Production currently being commingled on surface.

EXV

Case 5077

C-116  
Revised 1-1-65


No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

  
\_\_\_\_\_  
(Signature)  
Assistant District Superintendent  
\_\_\_\_\_  
(Title)  
\_\_\_\_\_  
(Date)

**NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS**

C-116  
Revised 1-1-65

Operator <b>TEXACO Inc.</b>		Pool <b>Skaggs Glorieta</b>						County <b>Lea</b>								
Address <b>Box 728, Hobbs, New Mexico 88240</b>							TYPE OF TEST - (X)		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>			
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT./BBL.
		U	S	T	R							WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.	
<b>C. H. Weir 'B'</b>	<b>4</b>	<b>I</b>	<b>11</b>	<b>20-S</b>	<b>37-E</b>	<b>8-20-73</b>	<b>P</b>	<b>-</b>	<b>-</b>	<b>12</b>	<b>24</b>	<b>3</b>	<b>368</b>	<b>12</b>	<b>90</b>	<b>7500</b>

No well will be assigned an allowable greater than the amount of oil produced on the official test.

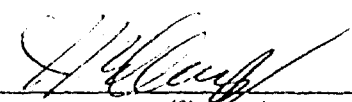
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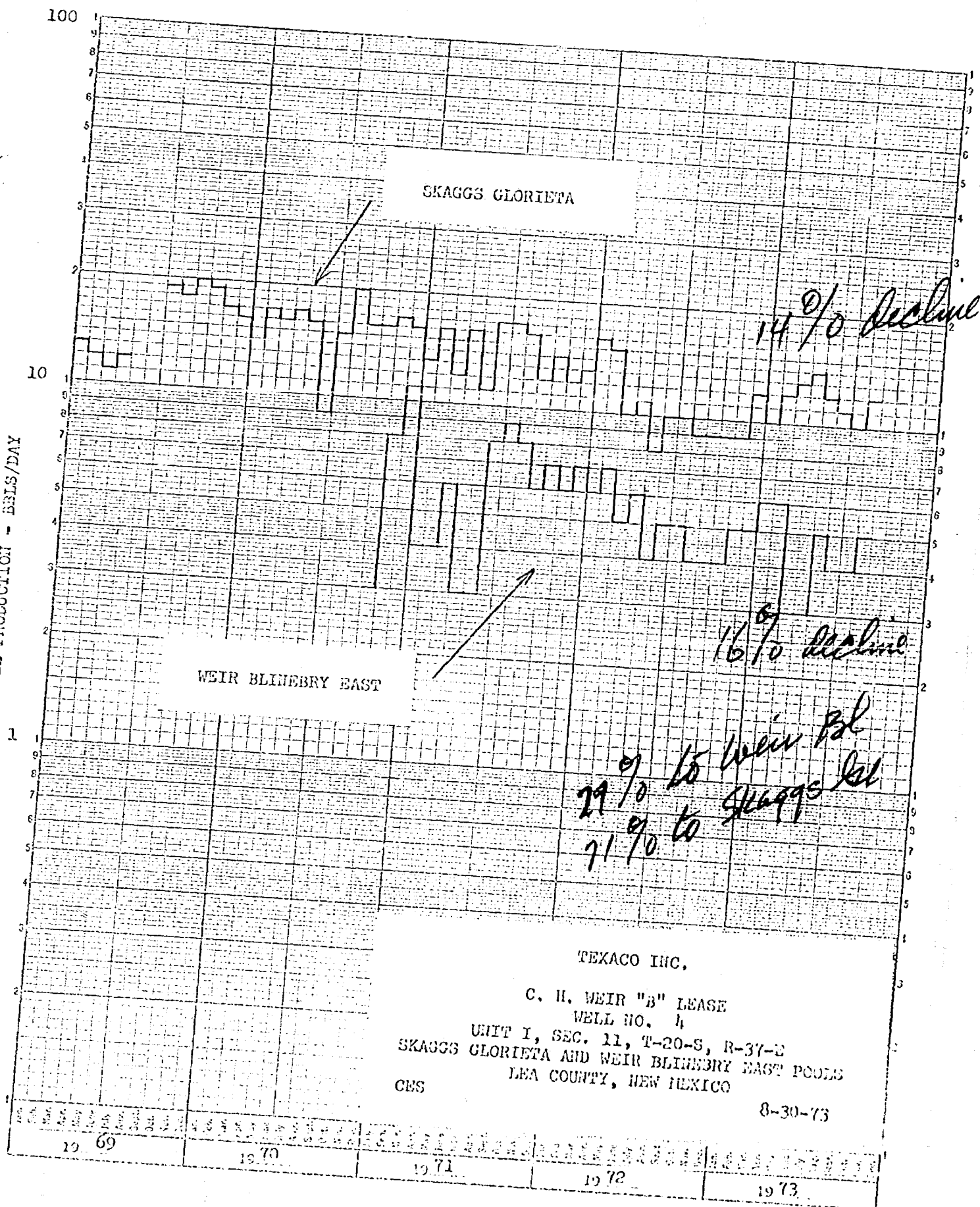
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
 (Signature)  
**Assistant District Superintendent**  
 (Title)  
 \_\_\_\_\_  
 (Date)

5 YEARS BY MONTHS 48 6690  
X 3 LOG CYCLES  
KEUFFEL & ESSER CO.

OIL PRODUCTION - BBL/DAY



DRAFT

dr/

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. 5077

Order No. R- 4653

APPLICATION OF TEXACO INC. FOR  
DOWNHOLE COMMINGLING AND 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 October 17, 1973,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this November day of October, 1973, 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., is the owner and  
operator of the C. H. Weir "B" Well No. 4, located in Unit I  
of Section 11, Township 20 South, Range 37 East, NMPM, Lea  
County, New Mexico.

(3) That the applicant seeks authority to commingle

Skaggs-Glorieta and East Weir-Blinebry production within the

wellbore of the above-described well *and to further complete said well*

*in such a manner as to produce said commingled production and production from the East Weir-*

(4) That from the Skaggs-Glorieta zone, the subject well

is capable of low marginal production only.

(5) That from the East Weir-Blinebry zone, the subject well is capable of low marginal production only.

(6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.

(8) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time the subject well is shut-in for 7 consecutive days.

(9) That in order to allocate the commingled production to each of the commingled zones in the subject well, 70 percent of the commingled oil production should be allocated to the Skaggs-Glorieta zone and 30 percent of the commingled oil production to the East Weir-Blinebry zone.

*(10) That the mechanics of the proposed dual completion are feasible and in said well in such a manner as to permit the production of the accord with good conservation practices.*

*(11) 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 commingle Skaggs-Glorieta and East Weir-Blinebry production within the wellbore of the C. H. Weir "B" Well No. 4 located in

Weir-Tubb  
Oil Pool

*through parallel strings of tubing, achieving separation of the commingled zones and East Weir-Tubb Oil Pool by means of a packer set at approx. 6550 feet.*

Unit I of Section 11, Township 20 South, Range 37 East, NMPM,  
Skaggs-Glorieta and East Weir-Blinebry Pools, Lea County, New  
Mexico.

(2) That 70 percent of the commingled oil production  
shall be allocated to the Skaggs-Glorieta zone and 30  
percent of the commingled oil production shall be allocated to  
the East Weir-Blinebry zone.

(3) That the operator of the subject well shall immediately  
notify the Commission's Hobbs district office any time the well  
has been shut-in for 7 consecutive days and shall concurrently  
present, to the Commission, a plan for remedial action.

(4) That applicant is hereby authorized to dually complete  
said well in such a manner as to permit the production of <sup>those</sup> ~~the~~  
aforesaid commingled fluids and <sup>1/2 sec</sup> hydrocarbons from the East Weir-  
Tubb Oil Pool through parallel strings of <sup>2 3/8-inch</sup> tubing, *with separation*

(5) 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.

(5) That Administrative Order MC-1918,  
which previously authorized the triple completion  
of the subject well to produce from the Eumont  
Gas Pool and the Skaggs-Glorieta and East  
Weir-Blinebry Pools, is hereby superseded.

of the commingled Glorieta and Blinebry zones  
and the Tubb zone achieved by means of a packer  
set at 6350 feet.

PROVIDED HOWEVER, (usual dual completion)

PROVIDED FURTHER, that the applicant shall take  
pore pressure tests upon completion and annually  
hereafter during the Annual Gas-Oil Ratio Test  
Period for the East Weir-Tubb Pool.