CASE 7268: CONOCO INC. FOR POOL EXTENSION AND CONTRACTION, LEA COUNTY, NEW MEXICO

Case No.

7268

Application Transcripts

Small Exhibits

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Hobbs OCD Artesia OCD Aztec OCD

Other Booker Kelly

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

July 20, 1981

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87501 (505) 827-2434

*	
Mr. Jason Kellahin Kellahin & Kellahin Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico	CASE NO. 7268 ORDER NO. R-6723 Applicant:
	Conoco Inc.
Dear Sir:	
Enclosed herewith are two copies Division order recently entered i	of the above-referenced n the subject case.
JOE D. RAMEY Director	
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JDR/fd	•
Copy of order also sent to:	

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE NATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 7268 Order No. R-6723

APPLICATION OF CONOCO INC. FOR POOL EXTENSION AND CONTRACTION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 s.m. on June 3, 1981, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>16th</u> day of July, 1981, the Division Director, 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 Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Conoco Inc., seeks the upward extension of the vertical limits of the Skagga-Grayburg Pool to include the lowermost 100 feet of the Queen formation underlying all of Section 13, the E/2 of Section 24, and NE/4 of Section 25, Township 20 South, Range 37 East, and the W/2 of Section 18, all of Section 19, NW/4 of Section 20, and N/2 of Section 30, Township 20 South, Range 38 East. Applicant also proposes the contraction of the vertical limits of the Eumont Pool by deletion of the lowermost 100 feet of the Queen formation underlying the NW/4 of Section 13 and E/2 of Section 24, Township 20 South, Range 37 East, and the W/2 of Section 18 and W/2 of Section 19, Township 20 South, Range 38 East.
- (3) That at the time of the hearing, the applicant reduced the area proposed for said amendment of vertical limits to include only the S/2 S/2, N/2 SE/4, SW/4 NE/4 and NW/4 SW/4 of Section 13, the E/2 of Section 24, and the NE/4 of Section 25,

- mil in Township 20 South, Range 37 East, NMPM, and the S/2 SW/4 and NW/4 SW/4 of Section 18, the S/2, NW/4, S/2 NE/4 and NW/4 NE/4 of Section 19, and the N/2 of Section 30, all in Township 20 South, Range 38 East, NMPM, in said Skaggs-Grayburg Pool.
- (4) That the applicant is the operator of the SEMU Permian Waterflood Project within the acreage described in finding No. (3) above.
- (5) That many of the wells within said project were drilled prior to the formal establishment of the vortical limits of eaid-\$kaggs-Greyburg Pool and are completed as much as 117 feet above the top of the Grayburg formation.
- (6) That there is oil within the interval 100 feet above the top of the Grayburg formation which is responding to water injection.
- (7) That it would not be practical to require the operator to isolate and separately produce those flooded intervals above the top of the Grayburg formation.
- (8) That oil which might not otherwise by recovered may be produced by permitting additional wells to be drilled and completed in said project within the Grayburg formation and the lowermost 100 feet of the Queen formation therein.
- (9) That the ownership is common in the proposed producing interval within the SEMU Permian Waterflood Project.
- (10) That an offset operator objected to the proposed amendment to the vertical limits of the Skaggs-Grayburg Pool and Eumont Pool cutside said waterflood project area.
- (11) That the amendment to said vertical limits should be limited to the project area described in Finding No. (3) above.
- (12) That approval of the Aroposed amendment to the vertical limits of said pools as limited by Flocking No. (9) above will result in greater ultimate receivery first quid pools, thereby preventing waste, and will not visible correlative rights.

IT IS THEREFORE OROSERS:

(1) That the vertical limits of the Skaggs-Grayburg Pool are hereby revised to include the legermost 100 feet of the Queen formation (in addition to the Grayburg formation) under

m] ... Case No. 7268 Order No. R-6723

the following described acreage, Lea County, New Mexico:

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM Section 13: S/2 S/2, N/2 SE/4, SW/4 NE/4, and NW/4 SW/4

E/2 Section 24: NE/4 Section 25:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM Section 18: \$/2 SW/4 and NW/4 SW/4 Section 19: \$/2, NW/4, \$/2 NE/4, and NW/4 NE/4 Section 30: N/2

IT IS FURTHER ORDERED:

(1) That the vertical limits of the Eumont Gas Pool are hereby contracted to delete the lowermost 100 feet of the Queen formation therefrom under the following described acreage, Lea County, New Mexico:

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM Section 24: E/2

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NHPM Section 18: \$/2 SW/4 and NW/4 SW/4 Section 19: W/2

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

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

> STATE OF NEW MEXICO DIL CONSERVATION DIVISION

JOE D. RAMEY

Director

SEAL

fd/

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO

3 June 1981

EXAMINER HEARING

IN THE MATTER OF:

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Application of Conoco, Inc., for pool extension and contraction, Lea County, New Mexico.

CASE 7268

BEFCRE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

Jason Kellahin, Esq. KELLAHIN & KELLAHIN 500 Don Gaspar Santa Fe, New Mexico 87501

For the Applicant:

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	APPEA	RANCES	
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For Texaco,	VН 22	Booker Kelly, Esq ITE, KOCH, KELLY, O Otero Street nta Fe, New Mexico	& McCARTHY
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	ı n	D E X	
GARY W. FON	AY		
	Direct Examination b	y Mr. Kellahin	5
	Cross Examination by	Mr. Stamets	11
CHARLES WOL	LE Direct Examination b	y Mr. Kelly	13
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2	EVT	3
3	EXHIBITS	
4	Conoco Exhibit One, Map	
	Conoco Exhibit Two, Map	5
1	Conoco Exhibit Three, Log	7
7 8	Conoco Exhibit Four, Tabulation	9
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MR. STAMETS: We'll call next Case 7268. MR. PADILLA: Application of Conoco. Inc., for pool extension and contraction, Lea County, New Mexico. Call for appearances in MR. STAMETS this case. MR. KELLAHIN: Jason Kellahin, appearing for the applicant. We have the same witness as in the pre-10 ceding case and may the record show that he has been sworn? 11 MR. KELLY: Booker Kelly of White, Koch, 12 Kelly, and McCarthy, appearing on behalf of Texaco in this 13 case. 14 MR. STAMETS: Do you have a witness, 15 Mr. Kelly? 16 MR. KELLY: We will have one witness. 17 MR. STAMETS: All right. I'd like to 18 have your witness stand and be sworn, Mr. Kelly, and the 19 other witness is still sworn. 20 21 (Mr. Kelly's witness sworn.) 22 23 24

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		1 2 3 being provide	GARY W. FONAY	5.
	5	follows, to-wit:	called and sworn as a wit	ness, testified as
	7	BY MR. KELLAHIN:	DIRECT EXAMINATION	
ř	9	name, please?	For the record, would	You state your
	11 12 13	Q.	Gary W. Fonay. Mr. Fonay, are you fam co in Case Number 7268?	iliar with the
	14 d	A. Q. Pase?	Yes sir, I am. What does the applicant	seek in this
1 18 19 20	ve	wermost 100 feet of	In this case we're asking approve the upward extense Skaggs Grayburg Pool to the Queen formatters	ng the Oil Con-
21 22 23 24	as	Q 1 Exhibit Number One, A. Y	Now referring to what has would you identify that e	been marked exhibit?
25	line	· ·	nt Unit, outlined by a hea	avy dashed

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23 24

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The Skaggs Grayburg Waterflood Project lies within this area and is outlined in red.

The area of extension being requested includes the southwest quarter of the northeast quarter, the southeast quarter, the southeast quarter of the southwest quarter, the west half of the southwest quarter of Section 13; the east half of Section 24: the northeast quarter of Section 25, in Township 20 South, Range 37 East.

The northwest quarter of the southwest quarter, the south half of the southwest quarter of Section 18; all of Section 19, except the northeast quarter of the northeast quarter; and the north half of Section 30 in Township 20 South, Range 38 East of Lea County, New Mexico.

Now is the area outlined in red the only portion of the Skaggs Grayburg Pool for which you request the 100-foot upward extension?

Yes, sir, that's it.

Actually the case was advertised for more acreage than that, was it not?

That is correct.

Do you have any objection to the including of the additional acreage?

No, sir. The acreage that I've just stated is solely Conoco acreage and that's the reason it's

slightly different than advertised.

3

So all you're prepared to do is talk about Conoco acreage?

Yes, sir, that is all.

Now referring to what has been marked

as Exhibit Number Two, would you identify that exhibit?

Yes, sir. If you'll refer to Exhibit A.

Number Two, this is a map of the same area as Exhibit Number One. On this exhibit we've outlined in blue the horizontal

10 11

boundary of the Skaggs Grayburg and the red outline shows the

12

boundary of the Eumont Gas Pool. The shaded interval is that

13

area where these overlap and this is where we're requesting

14

contraction of the Eumont Gas Pool this being the east half

15

of Section 24 of Township 20 South, Range 37 East, and the

16 17

northwest quarter of the southwest quarter and the south half

18

of the southwest quarter of Section 18, and the west half of Section 19, in Township 20 South Range 38 East, of Lea County

19

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New Mexico. And that's where the two pools overlap

21

in the horizontal limits that you're talking about here, is

22

Yes, sir, that is correct.

24

23

Now what is the extent of the contraction Ω

requested in the Eumont?

that correct?

Order Number R-264 established the Eumont Gas Pool.

the vertical limits of this were defined as extending down-

ward 200 feet from the top of the Queen formation and then

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later, in August of 1954, Order Number R-520 redefined these limits to extend to the base of the Queen.

Now do you have exhibits that will demonstrate what you have just described?

A Yes, sir, I do. If the Examiner will refer to Exhibit Number Three, this is a well log showing the completion interval of SEMU Well No. 15. It was the second well drilled in this area. This well was completed open hole in June of 1937.

You'll note, as shown on there, that the bottom of the casing is at a depth of 3648 feet, exposing approximately 117 feet of the Queen formation.

Now do you feel that this exhibit sufficiently demonstrates the existence of other wells in the Skaggs Grayburg Pool that have been completed in a similar fashion?

A. Yes, sir.

Q Is it necessary to offer additional logs for that purpose?

A. No. If the Examiner will refer to Exhibit Number Four, this is a tabulation of all wells in the proposed area of extension, and indicates completion interval and total feet of Queen open to production.

0. Well, now, your Exhibit Number Four

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10
    would seem to show that some wells will expose more than 100
                                 Some Wells do have more than that,
1
     feet of Queen, is that correct?
      and what we would recommend on these wells is that they be
2
      exempted or possibly grandfathered. The 100 feet extension
 3
       way proposed as a convenient number. This number covers the
  4
        vast majority of the current wells, and would cover any wells
   5
   Ó
    7
                               Now you do intend to have this cover
         to be drilled in the future.
     8
                                 yes, sir. Conoco may drill several in-
          any future wells, is that your proposal?
     9
           fill wells in the project area and we'd like to be able to
     10
            open to production in the new wells this limited portion of
      11
             the Queen formation that has been under our flood since the
       12
             project was initiated back in June of 1960 under the authority
       13
        14
                                     This was later expanded by Orders WFX-156,
         15
              of Order Number R-1710.
         16
                                      so as I understand you, under the water-
          17
                 flood project that's been underway for many years, both the
                WEX-272, and R-2940.
           18
            19
                  Grayburg and the Queen have been flooded?
            20
                                         Oh, yes, sir, they certainly have.
                                         So What you're really doing is including
             21
                    that portion that has been flooded within the Grayburg Pool?
              22
              23
               24
                25
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2	А.	That is correct.
3	Q Q	Mr. Fonay, will the granting of this
4	application be in th	e best interest of conservation?
5	λ.	Oh, yes, sir, I believe it will provide
6	for recovery of rese	rves from this Queen formation that could
7	otherwise not be rec	overed.
8	Q	And will it impair the correlative
9	rights of any other	
10	А.	No, sir, not at all.
11	ρ	Were Exhibits One through Four prepared
12	by you or under your	
13		
14	A.	Yes, they were.
15		MR. KELLAHIN: At this time we'll offer
	Exhibits One through	Four, inclusive.
16	6 C	MR. STAMETS: These exhibits will be
17	admitted.	
18		MR. KELLAHIN: That's all we have of
19	this witness.	
20		
21		CROSS EXAMINATION
22	BY MR. STAMETS:	
23	Q.	Mr. Fonay, looking at what was adver-
24	tised, the Division	advertised all of Section 13, and you're
25	proposing that all y	ou really need is the acreage outlined

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1		that would be satisfactory
2	în P	ink on Exhibit Number One and that would be satisfactory
3	1	conoco. Yes, sir, it covers all Conoco acreage
5		that section.
	7 of	Q. Okay, and the consistent in The northeast of 25 is consistent in 24 is consistent. The northeast of 25 is consistent in
		And then the Division advertised the west alf of Section 18, but you proposed only to include the
	10 ha	greage outlined in pink again.
	12	A. Yes, Sil. Section 19 the Division
ψ.	14	again advertised the entire section and you would not have any problem with leaving out the northeast?
	16	A No, sind the northwest of 20?
	17	And you indicated that the
	18	rest of 20 could be lend out
	20	A yes, sir,
	21 22	perhaps that was to avoid leaving some windows in the
٠	23	check that out.
	24	
	2	of this witness?

1 13 2 The witness may be excused. 3 CHARLES WOLLE 5 being called as a witness and being duly sworn upon his oath, 6 testified as follows, to-wit: 7 DIRECT EXAMINATION 9 BY MR. KELLY: 10 Would you state your name, please? 11 Charles Wolle W-O-L-L-E. 12 And by whom are you employed? 13 Employed by Texaco as a petroleum 14 engineer. 15 Have you previously qualified in that 16 field before the Commission? 17 No, sir. 18 Would you give the Examiner a brief 19 statement as to your background? 20 I received a Bachelor of Science in 21 chemical engineering degree from the University of Texas in 22 1965. 23 I was employed by Texaco in June, 1965 24 and have been employed by them in various petroleum engineering 25 positions except for a two year period when I was in the

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    service.
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                          I'm currently the Division Operations
    Engineer in our Midland, Texas, office.
5
                           Do your duties include supervision over
Ó
    the acreage that Texaco owns that is included in the published
7
    application?
                           Yes, sir.
ò
                           MR. KELLY: Are the witness' qualifi-
10
    cations accepted, Mr. Examiner?
11
                           MR. STAMETS: They are.
12
                           Does Texaco have a Eumont gas well that
13
    is located within the acreage as published by the Commission?
14
                A.
                           Yes, sir, we do.
15
                           Could you locate that well?
16
                           It's in Unit B of Section 13. It's
17
    Texaco's L. R. Kershaw Well No. 11.
18
                           And what acreage is dedicated to that
19
    well?
20
                           The acreage in the Eumont zone is dedi-
21
    cated to that well, the northwest quarter, Section 13 the
22
    northeast quarter of the southwest quarter, the north half
23
    of the northeast quarter.
24
                           All right, and that's all within the
25
    published application.
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2		Λ.	That's correct. We also have 30 acres
3	in Section	14, which	is not in the published.
4.		Q.	What is the present status of that well?
5		A.	It's shut in, waiting on a gas line
6	connection.		
7		Q.	Does it have perforations that would be
8	affected by	changing	the vertical limits of the Eumont?
(3)		A.	Yes, sir there are two perforations
10	which would	be in the	affected 100 feet.
11		Q	Could you give us the perforations?
12		A.	The total perforations? All the per-
13	forations?		
14		Q	Yes, why don't you just go ahead and
15	give us the	perforation	ons?
16	٠.	Α	Perforations at 3631, 39 44, 49, 60,
17	70, 80, 92,	3704, 15,	and 3724.
18		Q.	And which of those perforations would
19	be affected	by the gr	anting of this application?
20	·	Q.	The bottommost two perforations at 3715
21	and 3724.		
22		Q.	And those would become Grayburg classi-
23	fied tha	t would be	come part of the Grayburg classified
24	zone, is th	at correct	? ?
25		A.	That's correct.
	<u></u>		

1 16 2 Does Texaco request that the Commission 3. either by excepting this acreage that's dedicated or by excepting the well, or some other administrative method, keep the Eumont the way it is so that your well would remain solely a Eumont gas well? 7 Yes, sir, we do. 8 MR. KELLY: That's all we have, Mr. 9 Stamets. 10 MR. STAMETS: Okay. 11 12 CROSS EXAMINATION 13 BY MR. STAMETS: 14 So leaving out at least the acreage 15 which is dedicated to your well in any change we might make 16 as a result of this hearing would avoid any problem that 17 Texaco might have? 18 Yes, sir. 19 What about the other Texaco acreage in 20 this area? Do you know if you have any plans to put Eumont 21 wells in there? 22 There are no plans at this moment, to 23 my knowledge. 24 MR. STAMETS: Are there any other 25 questions of this witness? He may be excused.

MR. KELLAHIN: If the Examiner please, 3. Conoco has no objection to Texaco's proposal. MR. STAMETS Okay. If there is nothing further, then, this case will be taken under advisement. (Hearing concluded.)

Page ______18

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

Oil Conservation Division

SALLY W. BOYD, C.S.R. Rt. 1 Box 193-B Santa Fc, New Mexico 87501 Phone (505) 455-7409 STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 3 June 1981 EXAMINER HEARING Application of Conoco, Inc., for pool extension and contraction, Lea) CASE County, New Mexico. 7268 BEFORE: Richard L. Stamets TRANSCRIPT OF HEARING APPEARANCES For the Oil Conservation Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg.

Santa Fe, New Mexico 87501

Santa Fe, New Mexico 87501

Jason Kellahin, Esq.

KELLAHIN & KELLAHIN

500 Don Gaspar

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IN THE MATTER OF:

Division:

For the Applicant:

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	APPEARA	NCES	
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	5 WHITE 220 O	oker Kelly, Es , KOCH, KELLY, tero Street	& McCarthy
6	6	Fe, New Mexic	0 87501
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10	O INDE	Х	
11	, .	£	\$4
12	2 GART W. FUNAY	*	
13			5
14	Cross Examination by Mr.	Stamets	11
15	CHARLES WOLLE		
16	Direct Examination by Mr	. Kelly	13
17 18	Cross Examination by Mr		16
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2	EXHIBITS	
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4 .	Conoco Exhibit One, Map	5
5	Conoco Exhibit Two, Map	7
6	Conoco Exhibit Three, Log	9
7	Conoco Exhibit Four, Tabulation	9
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MR. STAMETS: We'll call next Case 7268. 3 MR. PADILLA: Application of Conoco, Inc., for pool extension and contraction, Lea County, New Mexico. MR. STAMETS: Call for appearances in 7. this case. MR. KELLAHIN: Jason Kellahin, appearing for the applicant. We have the same witness as in the pre-10 ceding case and may the record show that he has been sworn? 11 MR. KELLY: Booker Kelly of White, Koch, 12 Kelly, and McCarthy, appearing on behalf of Texaco in this 13 case. 14 MR. STAMETS: Do you have a witness, 15 Mr. Kelly? 16 MR. KELLY: We will have one witness. 17 MR. STAMETS: All right. I'd like to 18 have your witness stand and be sworn, Mr. Kelly, and the 19 other witness is still sworn. 20 21 (Mr. Kelly's witness sworn.) 22 23

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of the Southeast Monument Unit, outlined by a heavy dashed

line.

22

23

Q

The Skaggs Grayburg Waterflood Project lies within this area and is outlined in red.

The area of extension being requested includes the southwest quarter of the northeast quarter, the southeast quarter of the southwest quarter, the west half of the southwest quarter of Section 13; the east half of Section 24; the northeast quarter of Section 25, in Township 20 South, Range 37 East.

The northwest quarter of the southwest quarter, the south half of the southwest quarter of Section 18; all of Section 19, except the northeast quarter of the northeast quarter; and the north half of Section 30 in Township 20 South, Range 38 East of Lea County, New Mexico.

Now is the area outlined in red the only portion of the Skaggs Grayburg Pool for which you request the 100-foot upward extension?

Yes, sir, that's it.

Q. Actually the case was advertised for more acreage than that, was it not?

A. That is correct.

Q Do you have any objection to the including of the additional acreage?

A. No, sir. The acreage that I've just stated is solely Conoco acreage and that's the reason it's

are no

slightly different than advertised.

3

2

Q So all you're prepared to do is talk about Conoco acreage?

5

A. Yes, sir, that is all.

6

Now referring to what has been marked as Exhibit Number Two, would you identify that exhibit?

8

7

A. Yes, sir. If you'll refer to Exhibit

9

One. On this exhibit we've outlined in blue the horizontal

Number Two, this is a map of the same area as Exhibit Number

11

boundary of the Skaggs Grayburg and the red outline shows the

12

boundary of the Eumont Gas Pool. The shaded interval is that

13

area where these overlap and this is where we're requesting

14

contraction of the Eumont Gas Pool, this being the east half

15

of Section 24 of Township 20 South, Range 37 East, and the

16 17

northwest quarter of the southwest quarter and the south half of the southwest quarter of Section 18, and the west half of

18

Section 19, in Township 20 South Range 38 East, of Lea County,

19

New Mexico.

20

Q And that's where the two pools overlap in the horizontal limits that you're talking about here, is

22

21

that correct?

23

A. Yes, sir, that is correct.

24

Now what is the extent of the contraction

25

requested in the Eumont?

2 Well, we'd like the contraction to be the same as the proposed extension, 100 feet. In other words, take out of the Eumont 5 and put it in the Grayburg. Yes, sir. Is that correct? Uh-huh. 9 Now why is this extension and contraction 10 desireable? 11 Well, a little of the history, the 12 Skaggs Grayburg Pool was originally discovered March of 1937 13 by the Conoco operated SEMU Well No. 14. Now this is located 14 in Unit I of Section 24, and is shown on Exhibit One. 15 Initially, at this time there was no 16 formal definition of the Skaggs Grayburg vertical limits, 17 Numerous wells were drilled and completed open hole. Many of these wells, a portion of the Queen was exposed and con-19 sequently to date there are many producing and injection wells 20 in the Skaggs Grayburg Waterflood that expose some portion of 21 the Queen. 22 It wasn't until February of 1953 that 23 Order Number R-264 established the Eumont Gas Pool. Initially 24 the vertical limits of this were defined as extending down-25

ward 200 feet from the top of the Queen formation, and then

later, in August of 1954, Order Number R-520 redefined these limits to extend to the base of the Queen. Now do you have exhibits that will demonstrate what you have just described? Yes, sir, I do. If the Examiner will 7 refer to Exhibit Number Three, this is a well log showing the completion interval of SEMU Well No. 15. It was the second well drilled in this area. This well was completed open hole 10 in June of 1937. 11 You'll note, as shown on there, that the 12 bottom of the casing is at a depth of 3648 feet, exposing 13 approximately 117 feet of the Queen formation. 14 Now do you feel that this exhibit suf-15 ficiently demonstrates the existence of other wells in the 16 Skaggs Grayburg Pool that have been completed in a similar 17 fashion? 18 Yes, sir. 19 Is it necessary to offer additional 20 logs for that purpose? 21 If the Examiner will refer to 22 Exhibit Number Four, this is a tabulation of all wells in 23 the proposed area of extension, and indicates completion in-

terval and total feet of Queen open to production.

Well, now, your Exhibit Number Four

2425

Q.

1 10 2 would seem to show that some wells will expose more than 100 3 feet of Queen, is that correct? Yes. Some wells do have more than that, 5 and what we would recommend on these wells is that they be exempted or possibly grandfathered. The 100 feet extension 7 was proposed as a convenient number. This number covers the 8 vast majority of the current wells, and would cover any wells Ģ to be drilled in the future. 10 Now you do intend to have this cover 11 any future wells, is that your proposal? 12 Yes, sir. Conoco may drill several in-13 fill wells in the project area and we'd like to be able to 14 open to production in the new wells this limited portion of 15 the Queen formation that has been under our flood since the 16 project was initiated back in June of 1960 under the authority 17 of Order Number R-1710. 18 This was later expanded by Orders WFX-158, 19 WFX-272, and R-2940. 20 So as I understand you, under the water-21 flood project that's been underway for many years, both the 22 Grayburg and the Queen have been flooded? 23 Oh, yes, sir, they certainly have. 24 So what you're really doing is including 25 that portion that has been flooded within the Grayburg Pool?

× 1

2

in pink on Exhibit Number One and that would be satisfactory to Conoco.

4

Yes, sir, it covers all Conoco acreage

อ

Q. Okay, and then, let's see, the east half

7

of 24 is consistent. The northeast of 25 is consistent in

8

9

10

11

20 South, 37 East.

in that section.

And then the Division advertised the west half of Section 18, but you proposed only to include the

acre

acreage outlined in pink again.

12

A. Yes, sir.

13

Q And then in Section 19 the Division again advertised the entire section and you would not have any problem with leaving out the northeast northeast?

15

14

A. No, sir.

16 17

Q. And we advertised the northwest of 20?

And the north half of 30. And you indicated that the north-

19

18

A. Yes, sir.

west of 20 could be left out without any problem.

20 21

in not certain why that was done.

22

Perhaps that was to avoid leaving some windows in there and

23

MR. STAMETS: Are there other questions

24

of this witness?

I'll have to check that out.

```
13
                           The witness may be excused.
3
                            CHARLES WOLLE
5
    being called as a witness and being duly sworn upon his oath,
    testified as follows, to-wit:
                         DIRECT EXAMINATION
    BY MR. KELLY:
10
                           Would you state your name, please?
11
                           Charles Wolle, W-O-L-L-E.
12
                           And by whom are you employed?
13
                           Employed by Texaco as a petroleum
14
    engineer.
15
                           Have you previously qualified in that
16
    field before the Commission?
17
                           No, sir.
18
                           Would you give the Examiner a brief
19
    statement as to your background?
20
                           I received a Bachelor of Science in
21
    chemical engineering degree from the University of Texas in
22
    1965.
23
                           I was employed by Texaco in June, 1965
24
    and have been employed by them in various petroleum engineering
25
    positions except for a two year period when I was in the
```

```
14
    service.
                           I'm currently the Division Operations
    Engineer in our Midland, Texas, office.
5
                Q.
                           Do your duties include supervision over
    the acreage that Texaco owns that is included in the published
7
    application?
                           Yes, sir.
                 A.
                           MR, KELLY: Are the witness qualifi-
10
    cations accepted, Mr. Examiner?
11
                           MR. STAMETS:
                                         They are.
12
                           Does Texaco have a Eumont gas well that
                 Q.
    is located within the acreage as published by the Commission?
13
14
                           Yes, sir, we do.
15
                           Could you locate that well?
                 Q.
                           It's in Unit E of Section 13. It's
17
     Texaco's L. R. Kershaw Well No. 11.
18
                           And what acreage is dedicated to that
                 Q.
19
     well?
20
                           The acreage in the Eumont zone is dedi-
                 A.
21
     cated to that well, the northwest quarter, Section 13, the
22
     northeast quarter of the southwest quarter, the north half
23
     of the northeast quarter.
                           All right, and that's all within the
25
     published application.
```

16

24

```
15
                           That's correct. We also have 30 acres
 2
    in Section 14, which is not in the published.
 3
                           What is the present status of that well?
 5
                           It's shut in, waiting on a gas line
    connection.
                           Does it have perforations that would be
8
    affected by changing the vertical limits of the Eumont?
                           Yes, sir, there are two perforations
10
    which would be in the affected 100 feet.
11
                           Could you give us the perforations?
12
                           The total perforations? All the per-
13
     forations?
14
                           Yes, why don't you just go ahead and
15
     give us the perforations?
16
                           Perforations at 3631, 39, 44, 49, 60,
17
     70, 80, 92, 3704, 15, and 3724.
18
                           And which of those perforations would
19
     be affected by the granting of this application?
20
                           The bottommost two perforations at 3715
21
     and 3724.
22
                           And those would become Grayburg classi-
23
     fied -- that would become part of the Grayburg classified
24
     zone, is that correct?
25
                            That's correct.
                 A.
```

, ...**/**

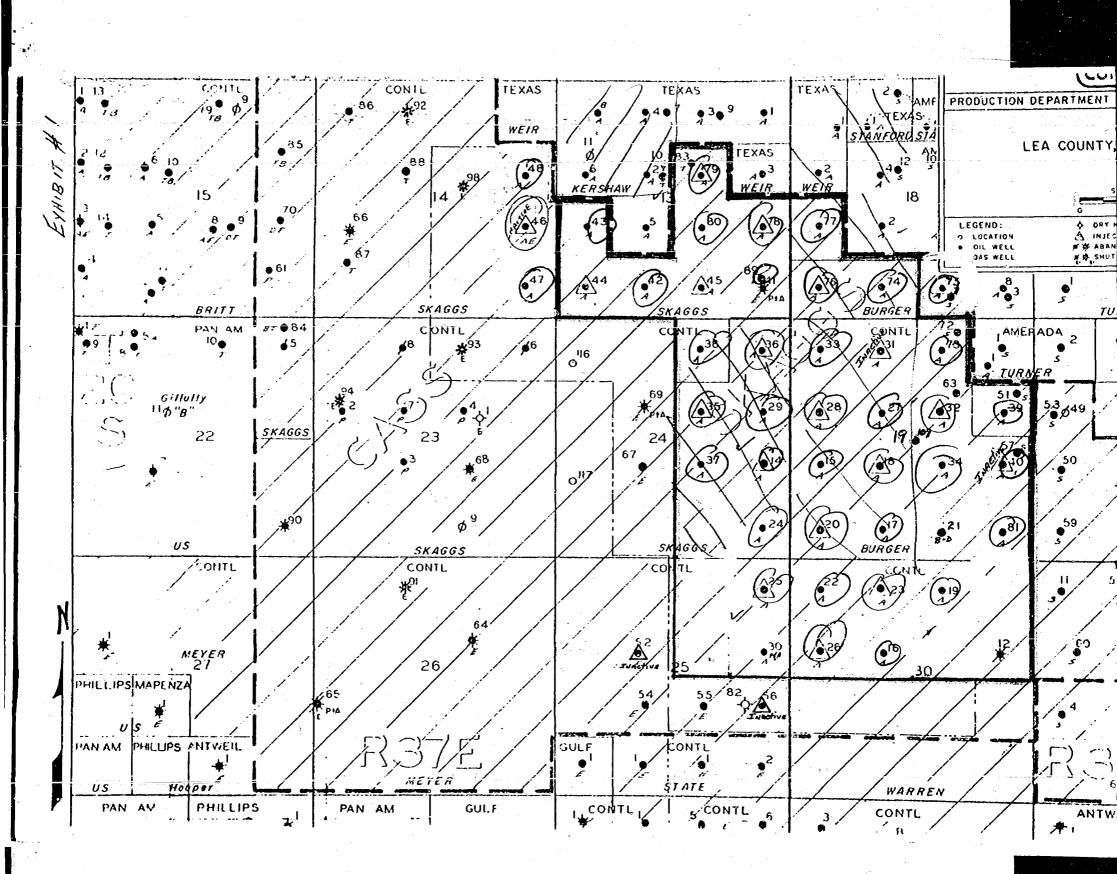
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17
                           MR. KELLAHIN: If the Examiner please,
3
    Conoco has no objection to Texaco's proposal.
                           MR. STAMETS: Okay.
5
                           If there is nothing further, then, this
6
    case will be taken under advisement.
                            (Hearing concluded.)
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
```

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Souly W. Boyd CSR

I do hereby certify that the foregoing is a complete reserve of the preceedings in the Examiner hearing of Case ido. 2268; Conservation Division Examiner



LYHIBIT #1 CONIL TEXAS TEXAS. 86 PRODUCTION DEPARTMENT HOBBS DIVISION AMF YEXAS. WEIR STANFORDSIA LEA COUNTY, NEW MEXICO 88 TEXAS *98/ (49) KERSHAW ⊿o³ WEIR WEIR 18 66 LEGEND: A INJECTION WELL SALT WATER O LOCATION DISPOSAL WELL OIL WELL A ABANDONED WELL 東京 SHUT - IN WELL DEEPER WELL -47 (AZ) 8 و م SKAGGS KAGGS BURGES TURNER BURGER AMERADA CONTL AMERADA ac 36 **6**6 TURNER. **6116** TURA 510 53 ø49 19 24 (15) 20 (81) 24 ø 9 BURGER 27/ SURGER SKAGGS () S CONTL CONTL 58 (1) 82 6 65 ONTL SULF • MEYER WARREN ANTWEIL ANTWEIL MUDGE CONTL CONTL CONTL

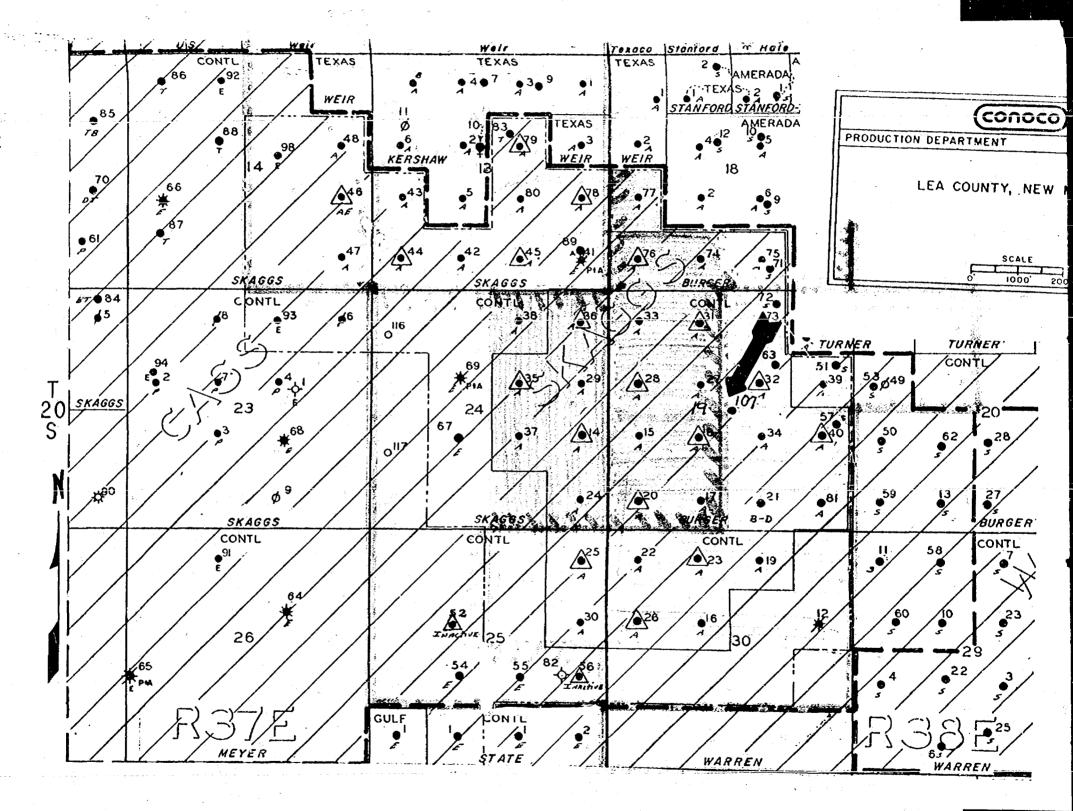
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

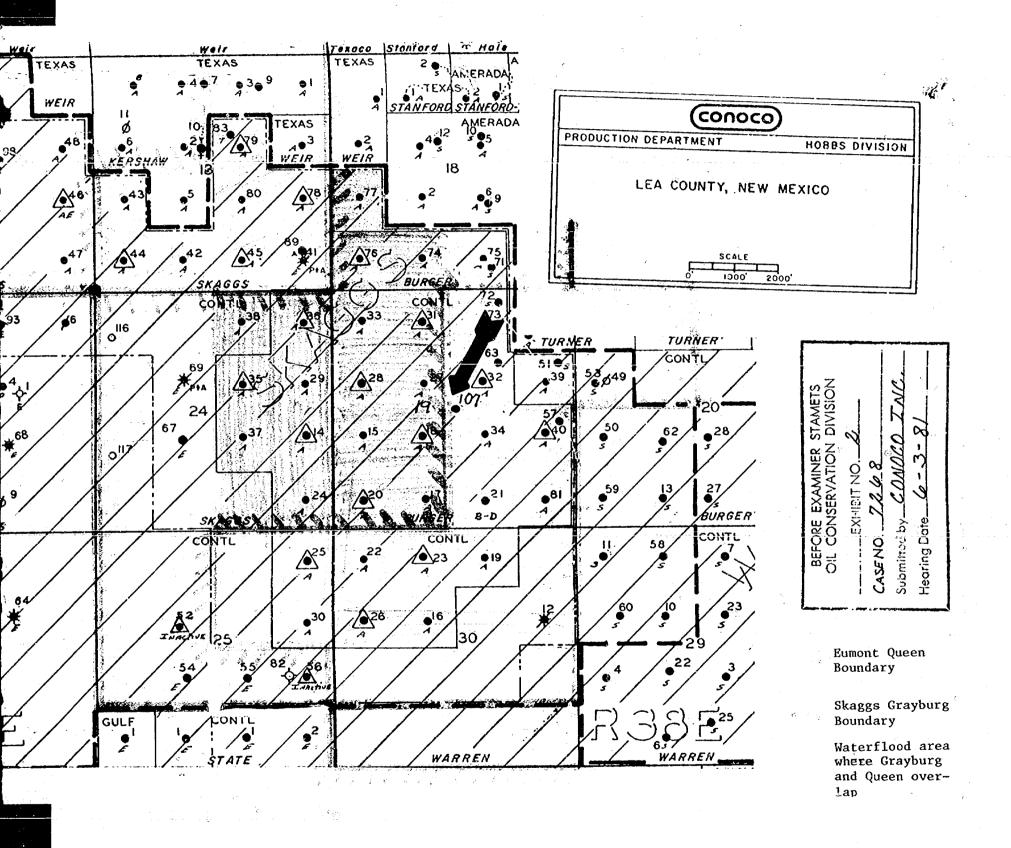
EXHIBIT NO. _____

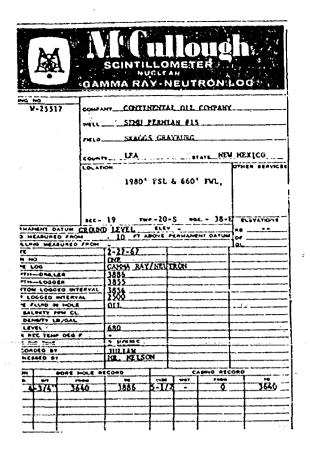
CASE NO. _____ 72.68

Submitted by _____ CONOCO_____ TAIC.

Hearing Date _____ (2 - 3 - 8)





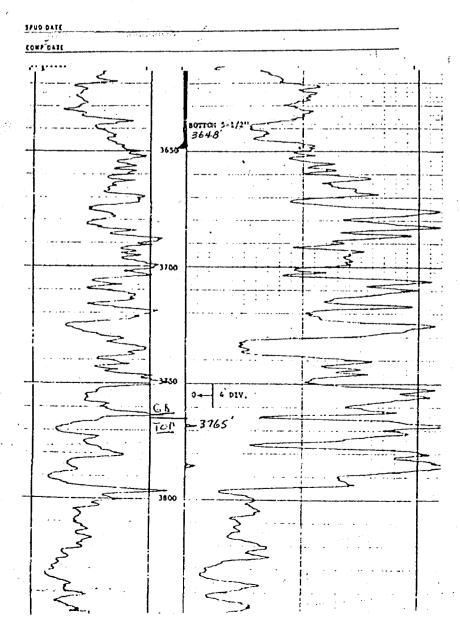


West Joses Clothical Log Sonice

REFERENCE W9153G

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18-5-0) Bate 18-3-8/
Submitted by Contract Inc.
EXHIBIT NO. 3
BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION
BEFORE EVALUE

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BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION
EXHIBIT NO3 CASE NO7268
Submitted by Conoco TNC.
Hearing Date 6-3-8/

SKAGGS POOL SEMU PERMIAN LEASE LEA COUNTY, NEW MEXICO

Page 1

•						
Compl. Date	Well No.	Elevation	T.D.	Grayburg Top	Comp. Internal	Open Feet Above Gray- burg top
3/37	14*	3555 DF	3900	3775	ОН	C.
6/37	15	3550 DF	3886	3765	3796'-3900' OH	117
10/37	16	3531 DF	3900	3735	3648'-3886' OH	i09
11/49	17	3548 DF	3875	3774	3626'-3900' OH	75
3/50	18*	3551. DF	3915	3763	3699'-3875' Perf Liner	<u>.</u> . <u>Q</u>
4/50	19	3546 DF	3890	3792	3798'-3870' ОН	93
6/50	20*	3545 DF	3908	3761	3699!-3890' ОН	27
7/50	21*	3547 DF	9731	3783	37341-39081 ОН	86
9/50	22	3542 DF	PB 4044 3900	3766	3697'-3923' ОН	67
10/50	23*	3538 DF	3910	3776	3699'-3900' ОН	77
12/50	24	3541 DF	3941	3774	3699'-3910' он	7 5
2/51	25*	3530 DF	3905	3771	3699'-3941' OH	69
3/51	26*	3530 DF	3908	3766	3702'-3905' on	61
4/51	27	3553 DF	3906	3766	3705 [†] -3908 [†] он	67
5/51	28*	3557 DF	3917	3778	3699'-3906' ОН	84
6/51	29	3549 DF	3911	3788	3694'-3917' ОН	89
7/51	30	3529 DF	3898	3764	3699'-3911' о́н	76
8/51	31*	3554 DF	3913	3783	3688'-3898' ОН	87
10/51	32*	3552 DF	3901	3788	3696'-3913' он	102
10/51	33	3556 DF	3922	3790	3686'-3901' ОН	96
10/51	34	3546 DF	3911	3774	3694'-3922' ОН	78
10/51	35*	3547 DF	3920	3782	3696'-3911' он	101
11/51	36*	3552 DF	3910	3774	3681'-3920' OH	75
11/51	37	3544 DF	3920	3772	3699'-3910' ОН	83
11/51	38	3551 DF	3920	3774	3689'-3920' OH	35
11/51	39	3550 DF	3931	3822	3739'-3920' OH	93
1/52	40*	3548 DF	3915	3808	3729'-3931' OH	79
1/52	41	3556 DF	3919	3770	3729'-3915' OH	41
2/54	42	3555 КВ	PB 3863 3891	3778	3729'~3863' OH	26
3/54	43	3556 КВ	3891	3780	3752'-3891' OH	11
3/54	44*	3552 DF	3892	3763	3769'-3891' OH 3770'-3892'	0

						Open Feet
Comp.	Well			Grayburg	Comp.	Above Gray-
Date	No.	Elevation	T.D.	Тор	Internal	burg top
4/54	45*	3556 DF	3890	3778	Perf 38161-38841	0
3/52	49*	3556 DF	3945	3789	он 3744'-3945!	45
11/51	73	3559 DF	3922	3790	Perf 3826'-3906'	0
11/51	74	3560 DF	3954	3808	ОН 3729'-3954'	79
12/51	76*	3545 DF	3929	3778	он 37351-39291	43
2/52	77	3562 DF	3900	3794	OH 3741!-3900!	53
4/52	78*	3557 DF	3882	3788	OH 3746'-3882'	42
12/52	79*	3564 DF	3896	3794	OH 3777'-3896'	17
8/53	80	3557 КВ	3879	3774	ОН 3749'-3879'	25
1/64	81	3545 DF	3940	3799	Perf 3752'-3915'	47
12/66	89	3548 GL	3950	3795	Perf	0

^{*} Injection Well

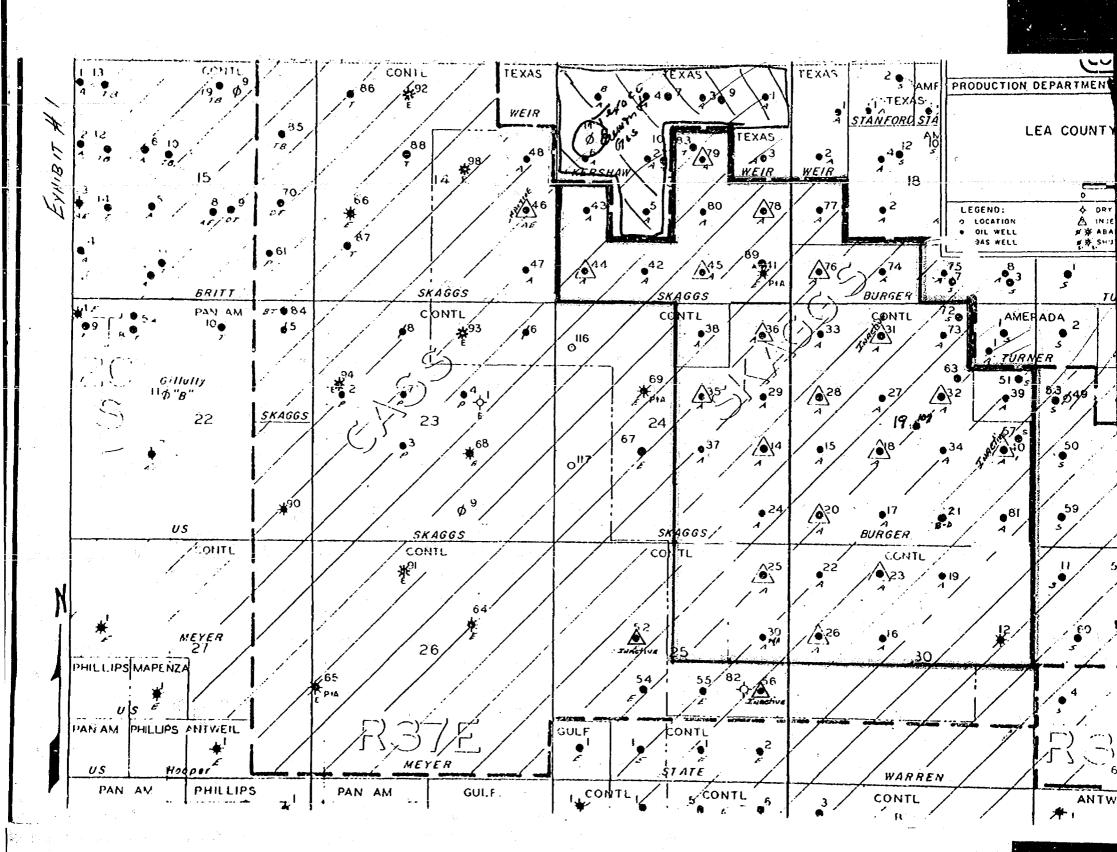
BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

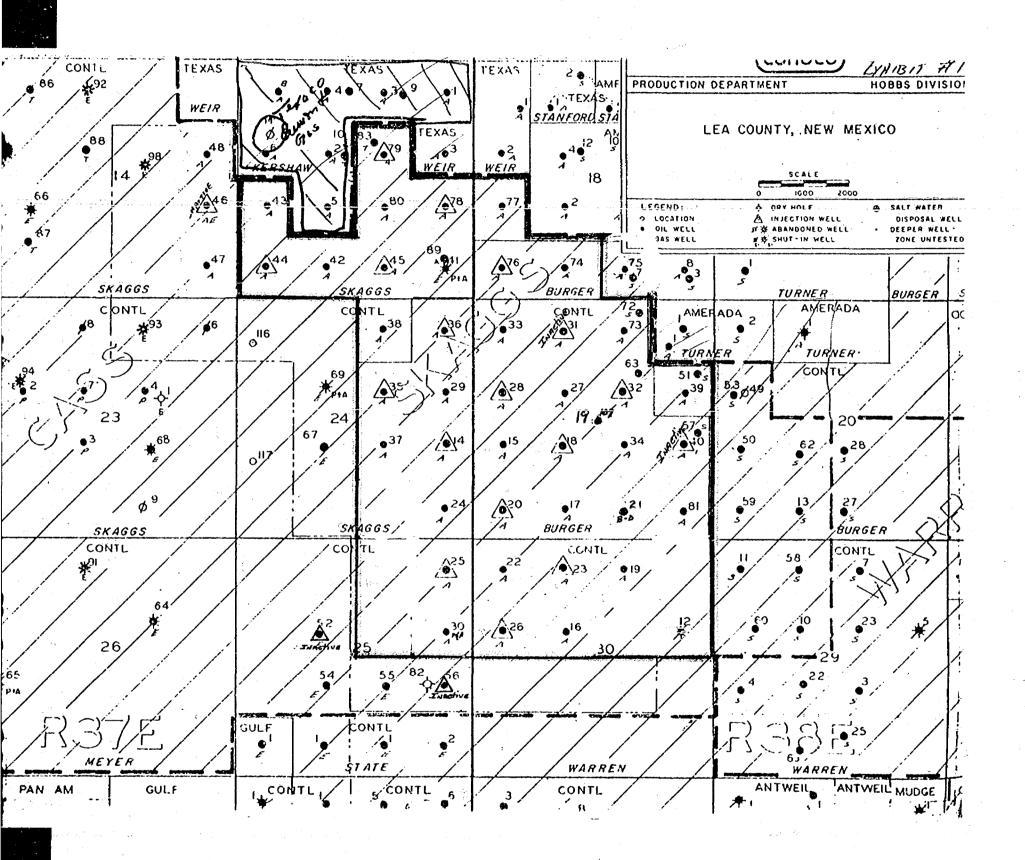
EXHIBIT NO. 4

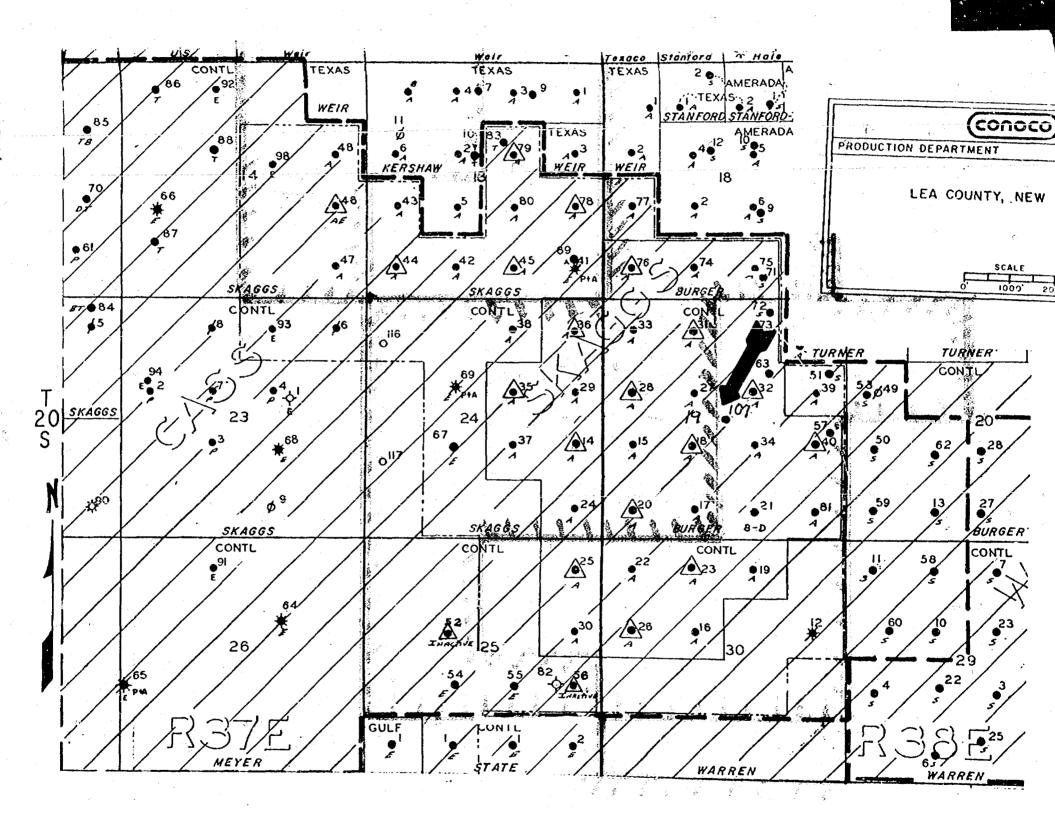
CASE NO. 7267

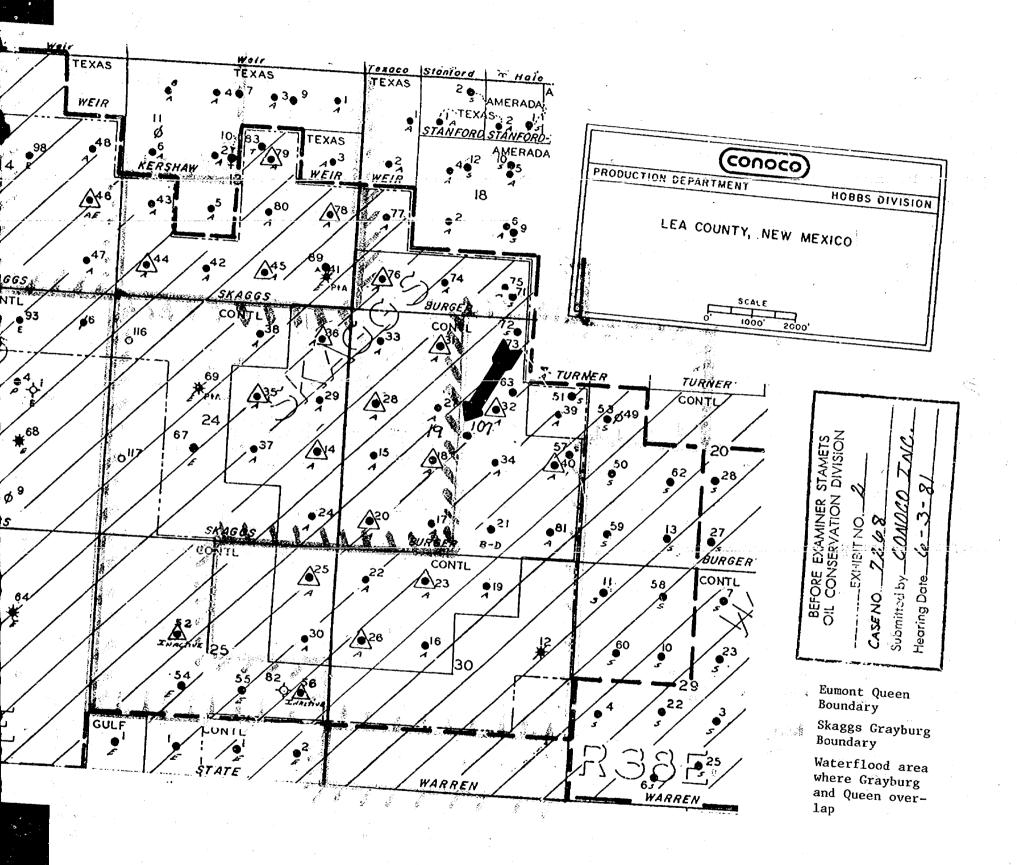
Submitted by LONDCO TAIC.

Hearing Date 6-3-81









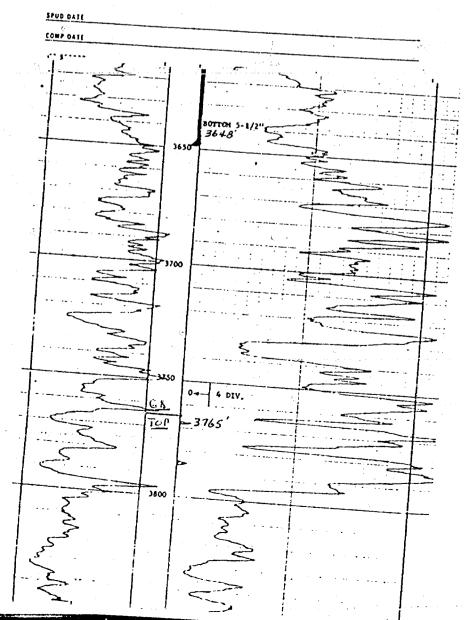
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West Jesus Chelical Log Service

REFERENCE N9153G

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C. Some Mares

Submitted by Contaco Inc. 18-5-91
CASE NO 7268
BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION EXHIBIT NO.
BEFORE EVAL

BEFORE EXAMINER STAM	ETS
OIL CONSERVATION DIVIS	ION
EXHIBIT NO. 3	<u>-</u>
CASE NO. 7268	
Submitted by LONOCO 7	NCI.
Hearing Date 6-3-81	

: 1

SKAGGS POOL SEMU PERMIAN LEASE LEA COUNTY, NEW MEXICO

Page 1

						Onan Paat
Compl.	Well No.	Elevation	<u>T.D.</u>	Grayburg Top	Comp. Internal	Open Feet Above Gray- burg top
3/37	14*	3555 DF	3900	3775	он 3796'-3900'	0
6/37	. 15	3550 DF	3886	3765	OH 3648!-3886!	117
10/37	16	3531 DF	3900	3735	OH 3626'-3900'	109
11/49	17	3548 DF	3875	3774	ОН 3699'-3875'	75
3/50	18*	3551 DF	3915	3763	Perf Liner 3798'-3870'	0
4/50	19	3546 DF	3890	3792	он 3699'-3890'	93
6/50	20*	3545 DF	3908	3761	он 3734'-3908'	27
7/50	21*	3547 DF	9731 PB 4044	3783	он 3697'-3923'	86
9/50	22	3542 DF	3900	3766	он 3699'-3900'	67 ,
10/50	23*	3538 DF	3910	3776	OH 3699'-3910'	77
12/50	24	3541 DF	3941	3774	OH 3699'-3941'	75
2/51	25*	3530 DF	3905	3771	OH 3702'-3905'	69
3/51	26*	3530 DF	3908	3766	OH 3705'-3908'	61 -
4/51	27	3553 DF	3906	3766	OH 3699'-3906'	67
5/51	28*	3557 DF	3917	3778	OH 3694'-3917'	84
6/51	29 _c	3549 DF	3911	3788	он 3699'-3911'	89
7/51	30	3529 DF	3898	3764	OH 3688'-3898'	76
8/51	31*	3554 DF	3913	3783	OH 3696'-3913'	87
10/51	32*	3552 27	3901	3788	OH 3686'-3901'	102
10/51	33	3556 DF	3922	3790	OH 3694'-3922'	96
10/51	34	3546 DF	3911	3774	OH 3696'-3911'	78
10/51	35*	3547 DF	3920	3782	OH 3681'-3920'	101
11/51	36*	3552 DF	3910	3774	OH 3699'-3910'	75
11/51	37	3544 DF	3920	3772	OH 3689'-3920'	83
11/51	38	3551 DF	3920	3774	OH 3739'-3920'	35
11/51	39	3550 DF	3931	3822	0H 3729'-3931'	93
1/52	40*	3548 DF	3915	3808	ОH	79
1/52	41	3556 DF	3919	3770	3729 '~3915 ' OH	41
2/54	42	3555 КВ	PB 3863 3891	3778	3729'~3863' OH	26
3/54	43	3556 КВ	3891	3780	3752'~3891' OH	11
3/54	44*	3552 DF	3892	3763	3769'-3891' OH 3770'-3892'	0

Comp. Date	Well No.	Elevation	T.D.	Grayburg Top	Comp. Internal	Open Feet Above Gray- burg top
4/54	45*	3556 DF	3890	3778	Perf	0
3/52	49*	3556 DF	3945	3789	3816'-3884' OH 3744'-3945'	45
11/51	73	3559 DF	3922	3790	Perf	0
11/51	, 74	3560 DF	3954	3808	3826'-3906' Он	
12/51	76*	3545 DF	3929	3778	3729'-3954' OH	79
2/52	77	3562 DF	3900	3794	3735'-3929'	43
4/52	78*	3557° DF	3882	3788	он 3741'-3900'	53
12/52	79*	3564 DF	3896		0H 3746'-3882'	42
8/53	80	3557 кв		3794	ОН 3777'-3896'	17
1/64			3879	3774	OH 3749'-3879'	25
	81	3545 DF	3940	3799	Perf	47
12/66	89	3548 GL	3950	3795	3752'-3915' Perf 3799'-3902'	0

^{*} Injection Well

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION

EXHIBIT NO. 4

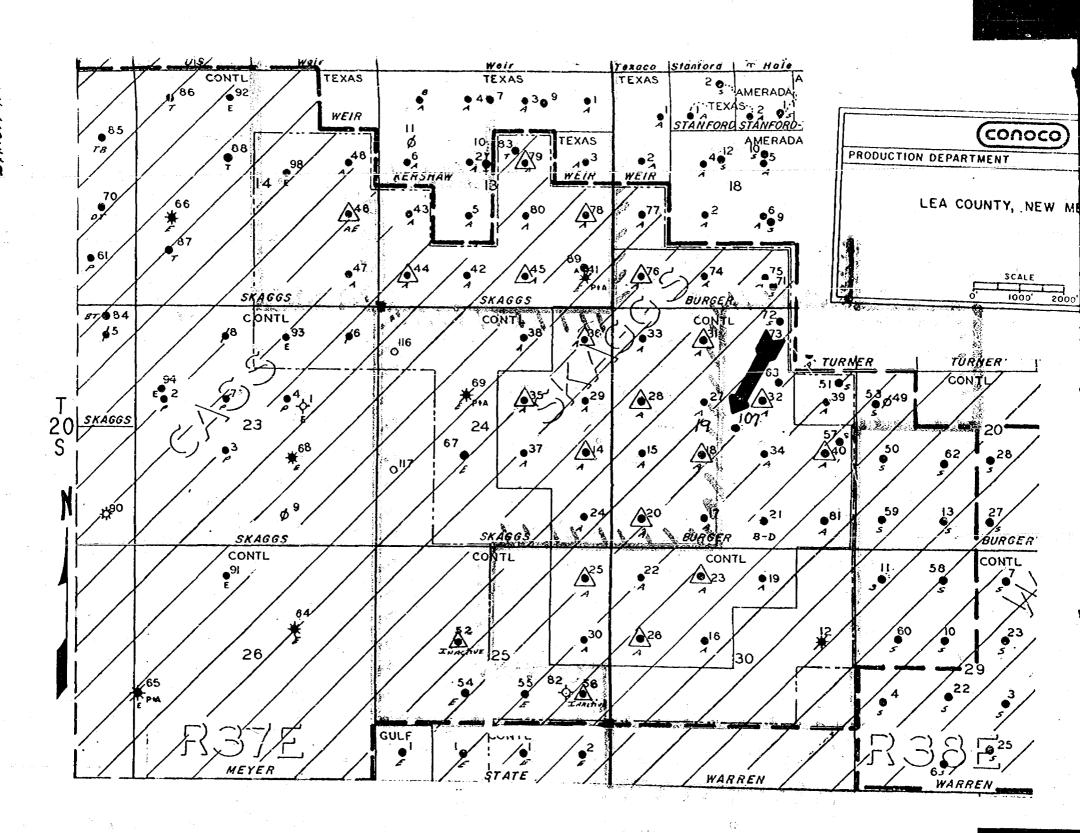
CASE NO. 7268

Submitted by CONOCO TAIC.

Hearing Date 6-3-81

LYHISIT #1 CONTL 1 E XAS TEXAS TEXAS . 86 PRODUCTION DEPARTMENT HOBBS DIVISION STANFORUSIÁ WEIR 88 LEA COUNTY, NEW MEXICO 48 4012 14 *98 6 KERSHAW A⊕3 WEIR ⊕ZA WEIR 46 18 ●80 66 **∆**₹8 LEGEND:
DECATION
OIL WELL
AS WELL B SALT WATER A INJECTION WELL # # ABANDONED WELL DISPOSAL WELL • * * 7 OFEPER WELL . A45 £16C 3 و DBURGER SKAGGS SKAGGS TURNER BURGER CONTL AND I 84 AMERADA CONTL **≱**93 AMERADA ac 38 • • • • 0116 TURNER TURNER! 51 **S** CONTL ₩ # # 39 53ø49 665 24 **★**68 67 <u> </u>4 /<u>\$</u>8 / (A)20 124 ø 9 90 27/ S BURGER •81 *A* ∕ ⊕17 A BURGER SKAGGS SKAGGS CONTL CONTL ¥61 C√ 58 \A 25 64⁴ 9.46 2.46 65 GULF •² MEYER \$T.ATE WARREN WARREN ANTWEIL ANTWEIL MUDGE CONTL CONTL ¥1 -

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION





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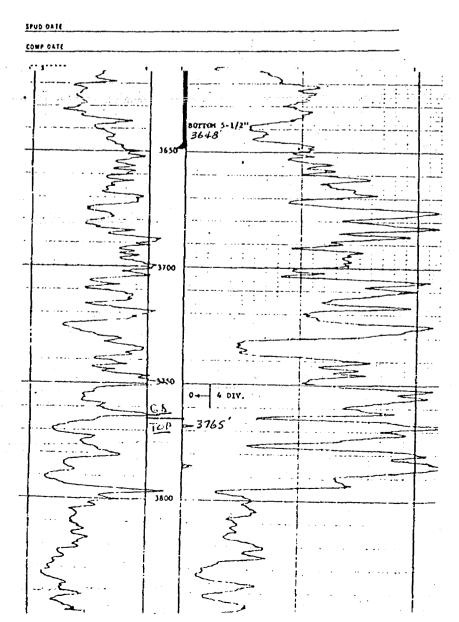
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West Jesus Electrical Log Service

REPERENCE N9153G



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_	MINER STAMETS NOISION DIVISION	BEFORE EXAM	

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	BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION
İ	CASE NO 7269
	Submitted by LONDCO TNC. Hearing Date 6-3-81

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SKAGGS POOL SEMU PERMIAN LEASE LEA COUNTY, NEW MEXICO

Page 1

					المراجعة ال المراجعة المراجعة ا	
Comp1.	Well No.	Elevation	T.D.	Grayburg Top	Comp. Internal	Open Feet Above Gray- burg top
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11/49	17	-3548 DF	3875	3774	OH 3699'-3875'	75
3/50	18*	3551 DF	3915	3763	Perf Liner 3798'-3870'	0
4/50	19	3546 DF	3890	3792	он 3699'-3890'	93
6/50	20*	3545 DF	3908	3761	OH 3734'-3908'	27
7/50	21*	3547 DF	9731 B 4044	3783	OH 3697'-3923'	86
9/50	22	3542 DF	3900	3766	он 3699'-3900'	67 🧐
10/50	23*	3538 DF	3910	3776	OH 3699'-3910'	77
12/50	24	3541 DF	3941	3774	ОН 3699'-3941'	75
2/51	25*	3530 DF	3905	3771	ОН 37021-39051	69
3/51	26*	3530 DF	3908	3766	ОН 3705'-3908'	
4/51	27	3553 DF	3906	3766	ОН 3699'-3906'	67
5/51	28*	3557 DF	3917	3778	ОН 3694'-3917'	84
6/51	29	3549 DF	3911	3788	он 3699'-3911'	89
7/51	30	3529 DF	3898	3764	OH 3688'-3898'	76
8/51	31*	3554 DF	3913	3783	он 3696'-3913'	87
10/51	32*	3552 DF	3901	3788	он 3686'-3901'	102
10/51	33	3556 DF	3922	3790	OH 3694'-3922'	96
10/51	34	3546 DF	3911	3774	он 3696'-3911'	78
10/51	35*	3547 DF	3920	3782	ОН 3681'-3920'	101
11/51	36*	3552 DF	3910	3774	ОН 3699'-3910'	75
11/51	37	3544 DF	3920	3772	ОН 3689'-3920'	83
11/51	38	3551 DF	3920	3774	ОН 37391-39201	35
11/51	39	3550 DF	3931	3822	ОН 3729'-3931'	93
1/52	40*	3548 DF	3915	3808	OH 3729'-3915'	79
1/52	41	3556 DF	3919 B 3863	3770	OH 3729'-3863'	41
2/54	42	3555 KB	3891	3778	OH 3752'-3891'	26
3/54	43	3556 KB	3891	3780	ОН 3769'-3891'	- 11
3/54	44*	3552 DF	3892	3763 i ·	ОН 3770'-3892'	0

Comp.	Well No.	Elevation	<u>T.D.</u>	Grayburg Top	Comp. Internal	Open Feet Above Gray- burg top
4/54	45*	3556 DF	3890	3778	Perf 3816'-3884'	0
3/52	49*	3556 DF	3945	3789	он 3744'-3945'	45
11/51	73	3559 DF	3922	3790	Perf 3826'-3906'	0
11/51	74	3560 DF	3954	3808	он 3729'-3954'	79
12/51	76*	3545 DF	3929	3778	ОН 3735'-3929'	43
2/52	77	3562 DF	3900	3794	он 3741'-3900'	53
4/52	78*	3557 DF	3882	3788	OH 3746'-3882'	42
12/52	79*	3564 DF	3896	3794	OH 3777'-3896'	17
8/53	80	3557 KB	3879	3774	ОН 3749'-3879'	
1/64	81	3545 DF	3940	3799	Perf 3752'-3915	
12/66	89	3548 GL	3950	3795	Perf 3799'-3902	0

^{*} Injection Well

MONEY (DS - 3-4) INC JUNE OF CHEST FOR THE TOTAL OF THE STATE OF THE S

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Application of Wolfy Smoth, the for directional deather and an anatomic to direction that the four states of smooth states and the four factors and smooth states and four factors and Concinued from May 7, 1981. Marking markets gams trantan syractons.

CASE 1217:

Application of garvey 8. Vates Cremany for an anarchodox sers well by afford the walls from the Applicant, in the above-styled cause, social garrent for the first flow and of the form for the property of the social garrent flow and the above-styled cause, social garrent flow and the flow and the section 11. Township 18 south, garrent flow and the flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. Township 18 south, garrent flow and the section 11. (Continued and Seadvertised)

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Application of Southern Union Exploration Company of Texas for computantly position of the form of the above styles conserve and most of the southern the above styles conserve at a most of the southern the form of the New Mexico. Applicant, in the above styles conserve at a most of the southern the standard that the West Puerto Chiquito-Mancos of the form underlying 1 do that each of the southern the southern south of the southern the southern south of the southern the southern southern the sou (Continued from May 6, 1981, Examiner Hearing)

Application of Cities Service Company for a salt unter dispused suctor to the interpolation of product and contact the the Applicant, in the above-device cause, socks antiquity to dispuse all product and produc Application of Cities Service Company for a malt unter disposal such the first point?, the first property of the property of t

entrada rormation at a depth of April 1861 18. Section 28, Township 19 Borth, Range 5 Mest. CASE 7264:

Application of Tenneco Gil Crepany for an anarthodor rate the month of the policy of a policy of the anarthodor rate of the anarthodor for the ana CASE 7265:

Application of Teorem 500 Convery for an authority partial and the second second second for the second seco CUSE 1266: the well.

CASE 7237: (Continued and Readvertised)

Application of Conoco Inc. for a dual completion and downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its State "F-1" Well No. 10 located in Unit V of Section 1, Township 21 South, Range 36 East, to produce oil from the Hardy-Blinebry Pool and commingled Mardy-Drinkard and undesignated Tubb production.

- CASE 7267: Application of Conoco Inc. for a dual completion and unorthodox location. Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks authority to dually complete its SENU Burger Well No. 107

 to produce oil from the Skaggs-Grayburg and an undesignated Paddock Pool at an unorthodox location

 2615 feet from the South and Cast lines of Section 19, Township 20 South, Range 38 East.
- CASE 7268: Application of Conoco Inc. for pool extension and contraction, Lea County, New Mexico
 Applicant, in the above-styled cause, seeks the upward extension of the vertical limits of the SkaggsGrayburg Pool to include the lowermost 100 feet of the Queen formation underlying all of Section 13, the E/2 of Section 24, and NE/4 of Section 25, Township 20 South, Range 37 East, and the W/2 of Section 18, all of Section 19, NS/4 of Section 20, and N/2 of Section 30, Township 20 South, Range 38 East. Applicant also proposes the contraction of the vertical limits of the Eumont Pool by deletion of the lowermost 100 feet of the Queen formation underlying the NN/4 of Section 13 and E/2 of Section 24, Township 20 South, Range 37 East, and the W/2 of Section 18 and W/2 of Section 19, Township 20 South, Range 38 East.
- CASE 1248: (Continued from May 6, 1981, Examiner Hearing)

Application of Inexco Oil Company for pool creation, special pool rules, and an oil discovery allowable, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Wolfcamp oil pool for its Federal 10 State Com. Well No. 1 located in Unit L of Section 10, Township 21 South, Range 26 East, and the promulgation of special rules therefor, including provisions for 160-acre spacing. Applicant further seeks the assignment of approximately 42,290 barrels of discovery allowable to the aforesaid well.

- CASE 7269: Application of Alpha Twenty-One Production Company for an unorthodox gas well location and a non-standard proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 120-acre non-standard proration unit comprising the E/2 SW/4 and the SW/4 SE/4 of Section 21, Township 21 South, Range 37 East, Eumont Gas Pool, to be dedicated to its Lansford Well No. 4 at an unorthodox location 810 feet from the South line and 1880 feet from the East line of said Section 21.
- CASE 7270: Application of Southland Royalty Company for compulsory pooling, Edly County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the N/2 of Section 21, Township 19 South, Range 27 East, to be dedicated to its Pecos River Federal 21-A Com Well No. 1 drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7250: (Continued from May 6, 1981, Examiner Hearing)

Application of Southland Royalty Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the N/2 of Section 22, Township 18 South, Range 29 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as aperator of the well, and a charge for risk involved in drilling said well.

- CASE 7271: Application of Morris R. Antweil for compulsory pooling, Lea County, New Mexico.

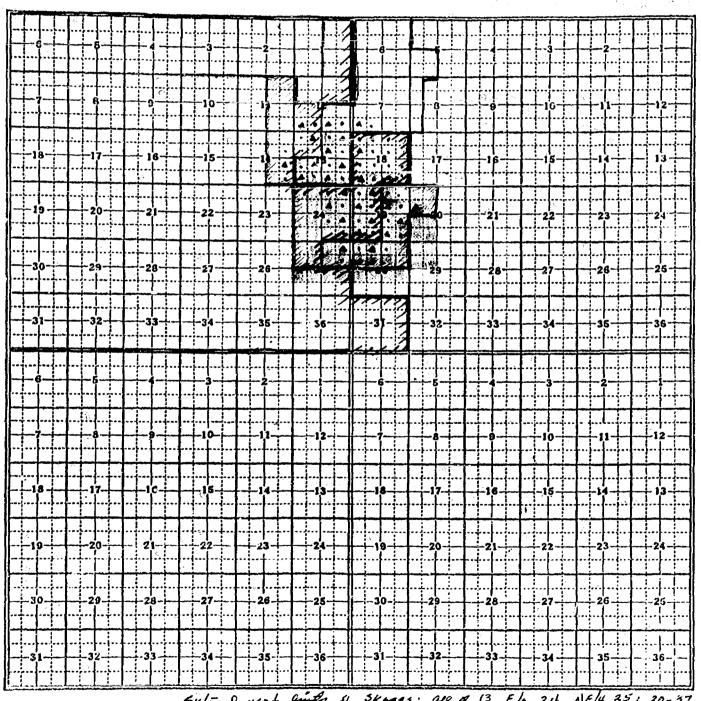
 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in all formations from the surface down through the Drinkard formation underlying the NN/4 SE/4 of Section 5, Township 20 South, Range 38 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.
- CASE 7086: (Continued from May 20, 1981, Examiner Hearing)

Application of Blackwood & Nickols Company, Ltd. for designation of a tight formation, San Juan and Rio Arriba Counties, New Mexico. Applicant, in the above-styled cause, seeks the designation of the Pictured Cliffs formation underlying portions of Townships 30 and 31 North, Ranges 6, 7, and 8 West, containing 33,500 acres, more or less, as a tight formation pursuant to Section 107 of the Natural Gas Policy Act and 18 CFR Section 271.701-705.

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Township



Extend vert sints of 3kaggs: all of 13, E/2 24, NE/4 25: 20-37 and south of 30: 20 - 38

Contact vert links of Eumont NOTA & 13 E/2 24 ### : 20.37

W/2 18 and W/2 19:20-38

BEFORE THE OIL CONSERVATION DIVISION ENERGY AND MINERALS DEPARTMENT OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF CONOCO INC. FOR APPROVAL TO DUALLY COMPLETE ITS SEMU BURGER WELL NO. 107 AT A NON-STANDARD LOCATION 2615' FSL AND 2615' FEL OF SECTION 19, T-20-S, R-38-E, LEA COUNTY, NEW MEXICO, IN THE SKAGGS GRAYBURG AND UNDESIGNATED PADDOCK POOLS AND FOR EXTENSION OF THE VERTICAL LIMITS OF THE SKAGGS GRAYBURG FOOL WITHIN THE AREA OF THE SKAGGS WATERFLOOD PROJECT, TO INCLUDE THE BOTTOM 100' OF THE QUEEN FORMATION IN PORTIONS OF SECTIONS 13, 24, AND 25, T-20-S, R-37-E, AND PORTIONS OF SECTIONS 18, 19, 20, 29, AND 30, T-20-S, R-38-E, LEA COUNTY, NEW MEXICO

Case 7268

APPLICATION

Applicant, Conoco Inc., respectfully requests authority to dually complete in the Skaggs Grayburg and Undesignated Paddock Pools its

Semu Burger Well No. 107 at an unorthodox location 2615' FSL and 2615'

FEL, Section 19, T-20-S, R-38-E, Lea County, New Mexico, and for extension of the vertical limits of the Skaggs Grayburg Pool within the waterflood are to include the bottom 100' of the Queen Formation found to be productive of hydrocarbons in wells located within the Skaggs Grayburg

Waterflood Project, and in support thereof will show:

1. Applicant is operator and co-owner of the Southeast Monument Unit, which in addition to other lands includes NW/4 SW/4, S/2 SW/4, SW/4 NE/4, SE/4 of Section 13; all Section 24; N/2, N/2 S/2 Section 25, T-20-S, R-37-E and NW/4 SW/4, S/2 SW/4, SW/4 SE/4 Section 18; all Section 19 except NE/4 NE/4; SW/4 NW/4, SW/4 Section 20; NW/4 Section 29; N/2, N/2 S/2 Section 30, T-20-S, R-38-E, Lea County, New Mexico.

APPROVAL TO DUALLY
WELL NO. 107
MAY 12, 1981

- 2. Applicant wishes to dually complete in the Skaggs Grayburg and Undesignated Paddock Pools its Semu Burger Well No. 107, which has been drilled at an unorthodox location 2615' FSL and 2615' FEL of Section 19, T-20-S, R-38-E, Lea County, New Mexico.
- 3. Applicant further wishes to extend the vertical limits of the Skaggs Grayburg Pool within the area at the waterflood project to include the bottom 100' of the Queen Formation.
- 4. That subject well was proposed and drilled with the intent of dually completing in the Blinebry Oil and Gas and Drinkard Pools, and that both these zones were found to be non-productive of hydrocarbons in paying quantities.
- 5. That authority to drill at the non-standard location was obtained by Order No. R-6307 dated April 15, 1980.
- 6. That completing this well in the manner of this application will prevent waste and will not impair the correlative rights of any party.

wherefore, applicant respectfully requests this application be set for hearing before the Division's dully appointed examiner and, upon hearing an order be entered authorizing the dual completion of said well and the vertical extension of the Skaggs Grayburg Pool to include the bottom 100' at the Queen Pool.

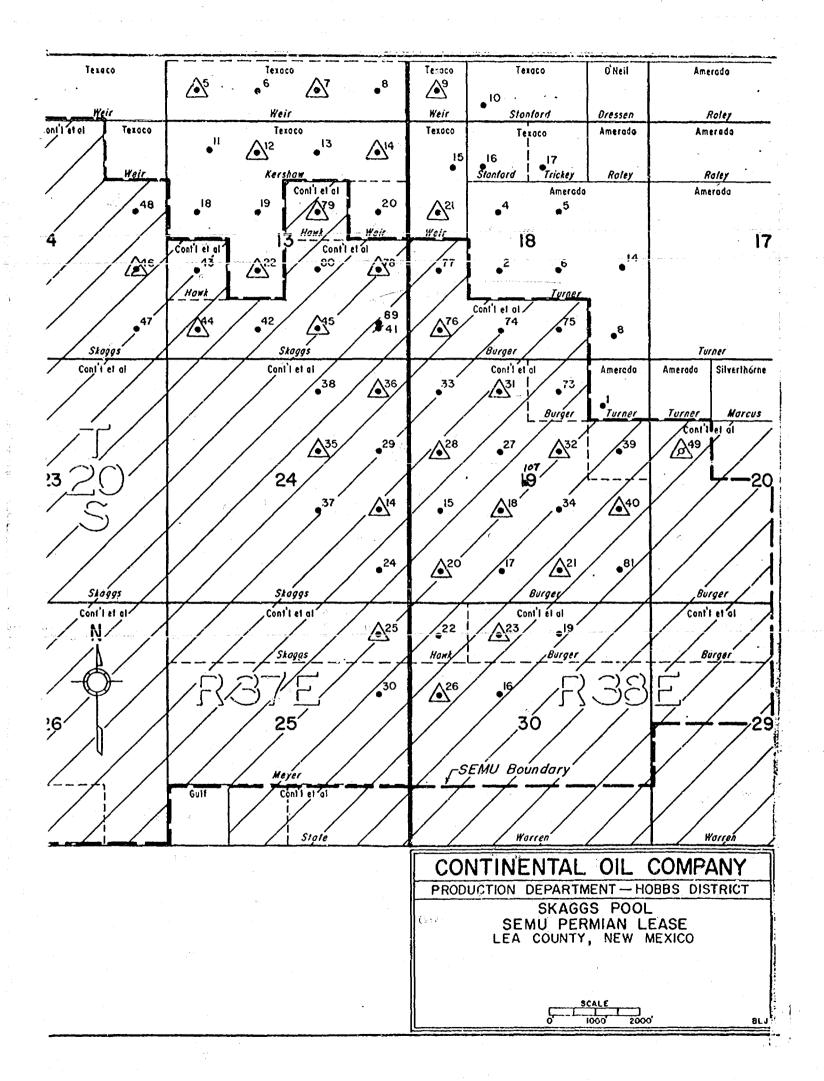
Respectfully submitted,

CONOCO INC.

for L. P. Thompson

Division Manager of Production

Hobbs Division



POUGH

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

	IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING: CASE NO. 7268 Order No. R-6723	
Applica	ORDER OF THE DIVISION	
* * * * * * * * * * * * * * * * * * * *	BY THE DIVISION: This cause came on for hearing at 9 a.m. on June 3	
M	19 8/, at Santa Fe, New Mexico, before Examiner 45	.
	Division Director, 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 Division has jurisdiction of this cause and the	
	subject matter thereof. (2) that the applicant, Conoco Inc.,	
	seeks the upward extension of the vertical limits of the Skaggs- seeks the upward extension of the vertical limits of the Skaggs- Grayburg Pool to include the lowermost 100 feet of the Queen formation underlying all of Section 13, the E/2 of Section 24, and NE/4 of Section 25, Township 20 South, Range 37 East, and the W/2 of Section 18, all of Section 19, NM/4 of Section 20, and N/2 of Section 30, Township 20 South, Range Section 18, all of Section 19, NM/4 of Section of the vertical limits of the Eumont Pool by dele- 38 East. Applicant also proposes the contraction of the vertical limits of the Eumont Pool by dele- tion of the lowermost 100 feet of the Queen formation underlying the NM/4 of Section 13 and E/2 of tion of the lowermost 100 feet of the Queen formation underlying the NM/4 of Section 13 and E/2 of Section 24, Township 20 South, Range 37 East, and the W/2 of Section 18 and W/2 of Section 19, Township 20 South, Range 38 East.	क्र २ इस्टेडिये

(3) that at the time of the hearing, the applicant reduced the area proposed for namendament of vertical limits to include only the SIZ SIZ, N/2 SE/4, SW/4 DE/4 and NW/4 SW/4 of Section 13, the E/2 of Section 24, and the NE/4 of Section 25, all in Township 20 South, Range 37 East, NAPA, and the S/2 SW/4 and DW/4 SW/4 of Section 18, The S/2 , NW/4, S/2 NE/4 and NW/4 NE 4 of Section 19, and the N/2 of Section 30, all in Vownship 20 South, Runge 38 Cost, NMPM, 20 in said Skaggs - Gray burg Pool. (4) that the applicant is the opperator of the SEMU Permian Waterflood Project within the acreage described in Finding No. 3 above. (3) (4) that many of the wells within said project were dritted prior to The formal establishment of the vertical limits of soil Skaggs-browburg Pool and are completed as much as of the Grayburg formation. (6) that there is oil within the interval 100 feet above the top of the Groyburg formation which is responding to vater injection. (7) (6) That it would not be practical to require the operator to isolate and seperately produce those blooded intervals above the top of the Gray bury formation. (8) That additional oil may be

(8) That the Union the proposed producing second within the proposed producing wells within the Permian Waterflood Project.

(10) (2) that an offset operator objected to the proposed amendment to the vertical limits of the Skagys-Grayburg Pool and Eumont Pool outside soid waterflood project area.

(11) (9) That The amendment to said Vertical limits should be limited to the project area described in Finding No. 3 above.

(12) (46) that approval of the proposed amend ment to the vertical limits of soid pools as limited by Finding No(9) above will pesult in greater ultimate recovery from said pools thereby preventing waste, and will not violate correlative rights.

IT IS THEREFORE ORDERED

(1) That there vertical limits of the Skaggs - biray bury Pool are trenby 'S' revised to include the lowermost 100 fee to the Queen formation (in addition to the biray bury formation) under the tollowing buries:

Vown ship 20 South, Range 37 East, NMPM Section 13: SI2 SI2 N/2 SE/4, SW/4 NE/4 and NW/4 SW/4 Section 24: E/2 Section 25: NE/4

Township 20 South, Bange 38 East, NMPM
Section 18: 5/2 sult Detty and NW/4 3W/4
Section 19: 5/2, NW/4, S/2 NE/4, NW/4 NC/4
Section 30: N/2

OIV IS FURTHER ORDERED

(1) That the vertical limits of the Cumon & Gras Paol are hereby are tracted to delete the lowermost 100 feet of the Queen formation therefrom under the following described access a creege, here County, New Mexico:

Township 20 South, Range 37 Cast, NMM Vounchip 20 South, Range 38 East, NMPM Section 18: \$12500 and NWM SWM Section 19: W/2

(2) Jurisdiction