

R-37-E18 17 16 15 TEXAS CRUDE PENNZOIL & TEXACO PENNZOIL YATES 20 22 19 21 AMERIND TEXACO ---PROPOSED LOCATION T 16 S 29 27 30 28 31 32 33 34 PENNZOIL TIPPERARY CONOCO 6 5 3 PHILLIPS PROPOSED LOCATION PENNZOIL PROPOSED LOCATION FASKEN T EXXON CORP 17 7 10 8  $\mathcal{S}$ 17 16 18 15

**CASE 9003** 11-20-86

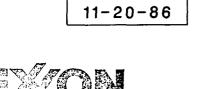


EXHIBIT NO.\_\_\_\_

FXXON	<b>CORPOR</b>	ATION
		/

SHIPP FIELD Land Map

T-16&17-S, R-37-E	Lea	New Mexico
LOCATION	COUNTY	STATE
1" = 4000'		

1	A Yes, that's correct.	
2	Q All right. What is your understanding of	\
3	the basis or justification for the minimum distance between	
4	wells, Mr. Hair, and whether or not you recommend that that	
5	basis be continued?	
6	A At the hearing, when the for the	,
7	establishment of field rules, an engineer from Pennzoil	
8	presented quite a bit of data having to do with the	:
9	permeability of these reservoirs.	ı
10	We presented data based on our Viersen	ı
11	No. 1, which has since been confirmed in our Viersen No. 2	
12	and our Shipp No. 1, of the excellent permeability of these	
13	reservoirs.	İ
14	the state wells spaced too closely	نہ
14 15	too closely bris the reservoirs. Ros will	5
		5
15	the case voirs. The case voirs.	5
15 16	interior another because the permeability) area of	5
15 16 17	interest vely drain the reservoirs. The velli interest in one another because the permeability) gree of desired the reservoirs of the permeability of the permeability of the permeability.	
15 16 17 18	introductively drain the teservoirs.   White will introduce the permeability) was an desired to permeability to the permeability of the permeabili	
15 16 17 18 19	interest the less the permeability) gree of decisions and the second the permeability gree of decisions are standard by spacing those wells 990 feet the last the last from overlapping so extensively.	
15 16 17 18 19 20	in the reservoirs. The villing of another because the permeability) are of the permeability in the permeab	5
15 16 17 18 19 20 21	periods another because the permeability) are of desired to the permeability of the pe	
15 16 17 18 19 20 21 22	in the reservoirs. It will be seen the permeability in the reservoirs. It will be seen the permeability in millidarcies, Mr. Hair?  A I believe in that testimony the average	
15 16 17 18 19 20 21 22 23	another because the permeability of displacements and the permeability of displacements.  A I believe in that testimony the average permeability was 42 millidarcies in this zone, which is excellent.  BEFORE THE OLL CONSERVATION COMMISSION	
15 16 17 18 19 20 21 22 23 24	what was the range of permeability in millidarcies, Mr. Hair?  A I believe in that testimony the average permeability was 42 millidarcies in this zone, which is excellent.  BEFORE THE	
15 16 17 18 19 20 21 22 23 24	another because the permeability of displacements.  A I believe in that testimony the average permeability was 42 millidarcies in this zone, which is excellent.  O Okay.	

X

#### VOLUMETRIC RESERVE ANALYSIS OF VIERSON #2 POD

Based upon Pennzoil's testimony:

A= 10 acres

Ø= 8%

havg= unknown

 $S_W = 15\%$ 

RF= 25%

 $B_0 = 1.5 RB/STB$ 

N= 71,000 STB

Solving for h:

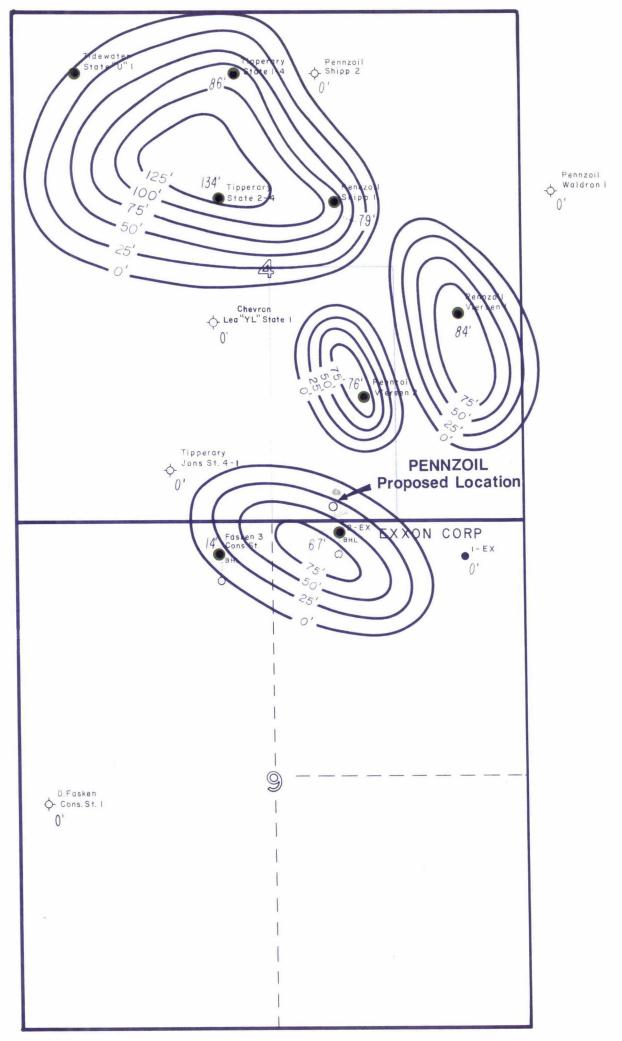
 $71,000 = \frac{7758(10)(0.08)(1-0.15)(.25)(h)}{1.5}$ 

h = 80.7'

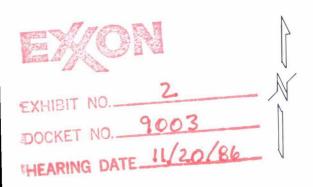
DEFORE THE
OIL CONSERVATION COMMISSION
Sand For New Maximum
1- B

9003

9xxan
11/21/86



Strawn Producer



EXXON CORPORATION, U.S.A.

SHIPP FIELD

Net Porosity Map - Strawn

HORIZON

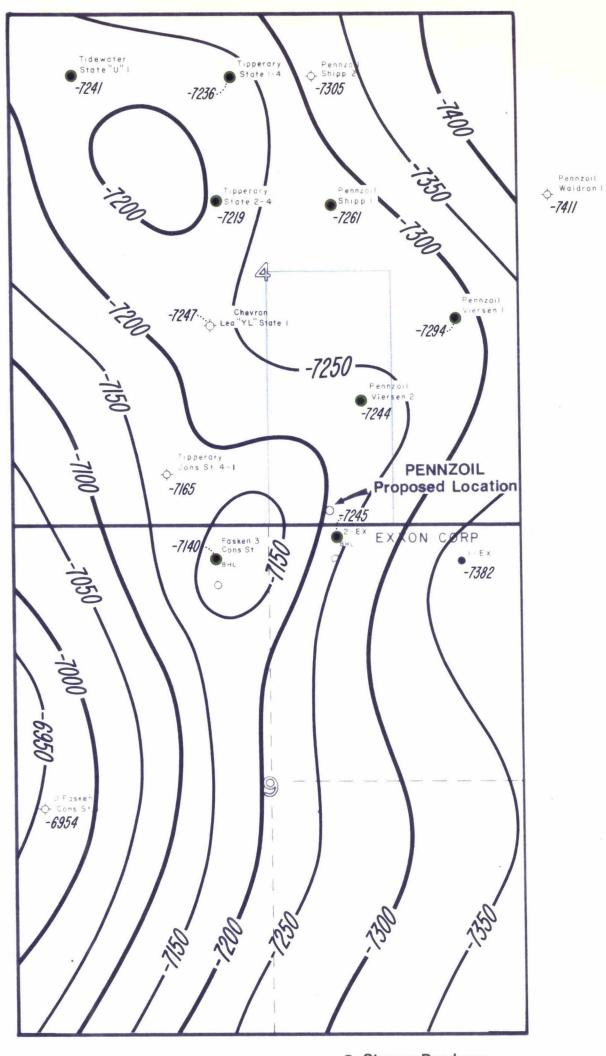
T-17-S, R-37-E

Lea County, New Mexico
COUNTY
STATE

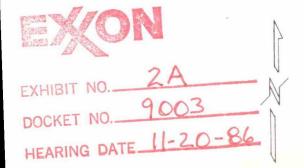
4% Porosity Cutoff

1" = 1000'

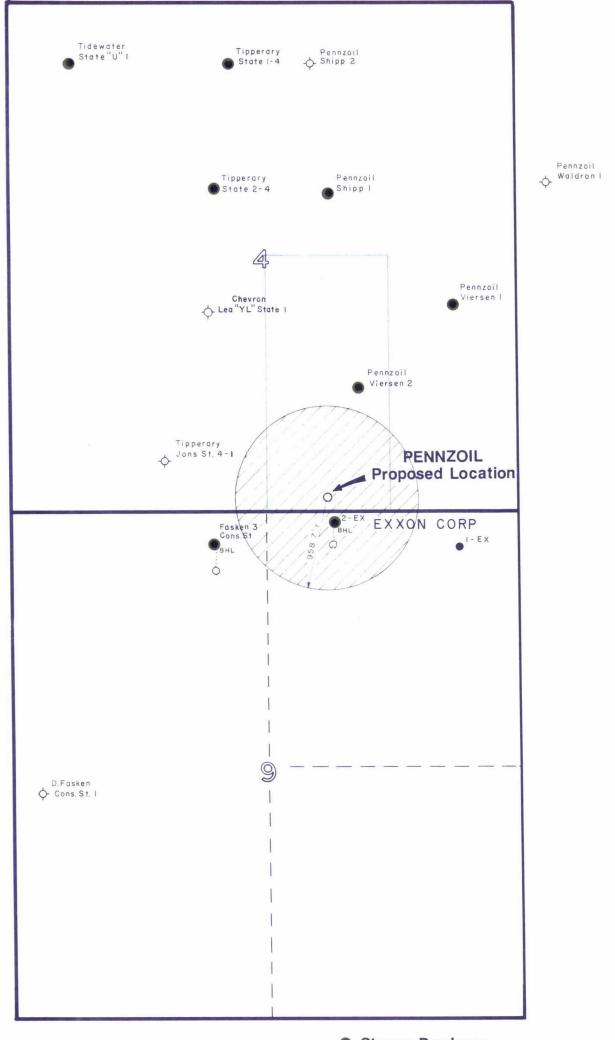
C.I. - 25'



Strawn Producer



### **EXXON CORPORATION** SHIPP FIELD Structure Map - Top of Strawn Lea County, New Mexico T-17-S, R-37-E C.I. - 50' 1. - 1000.



Strawn Producer



EXHIBIT NO.\_\_\_\_

DOCKET NO. 9003

HEARING DATE 11-20-86



# EXXON CORPORATION

#### SHIPP FIELD

Possible BHL's (at 11,000-foot drill depth) without exceeding 5<sup>0</sup> deviation from vertical.

HORIZO

T-17-S, R-37-E

Lea County, New Mexico

1" = 1000'

r = 958.7

#### PENALTY CALCULATION<sup>1</sup>

### <u>Acreage Distribution of Strawn Reservoir Productive in Fasken-Consolidated State #3 and Exxon "Ex" State #2</u>

	Company	Number of Productive Acres Leased
	Exxon Pennzoil Phillips Faskin Total are	39 13 8 13 a of this productive reservoir = 73 acres
Production Limitation Factor <sup>2</sup>		Productive Acreage Proration Unit Size
	=	13 Acres 80 Acres
Production Limitation Factor <sup>2</sup>		0.16
Penalty	=	(1-0.16) = 0.84
Production Limitation		(0.16)(445 BOPD) = 71 BOPD  See R 8227

Exxon Corporation Exhibit No.  $\frac{4}{2}$  Case No.  $\frac{9003}{1986}$  November 20, 1986

<sup>1</sup> From Order No. R-8239

 $<sup>^{\</sup>rm 2}$  To be applied to the Depth Bracket Allowable for an 80-acre Oil Proration Unit.

#### PENALTY CALCULATION

## <u>Volume Distribution of Strawn Reservoir Productive in Fasken-Consolidated State #3 and Exxon "Ex" State #2</u>

Company	Volume of Reservoir under Leased Acreage
	(Acre/ft)
Exxon	1662
Pennzoil	360
Phillips	254
Faskin	233

Total volume of this productive reservoir = 2509 acre-feet

Exxon Corporation Exhibit No. <u>5</u> Case No. <u>9003</u> November 20, 1986

 $<sup>{</sup>f 1}$  To be applied to the Depth Bracket Allowable for an 80-acre Oil Proration Unit.