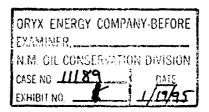
#### **ORYX ENERGY COMPANY**

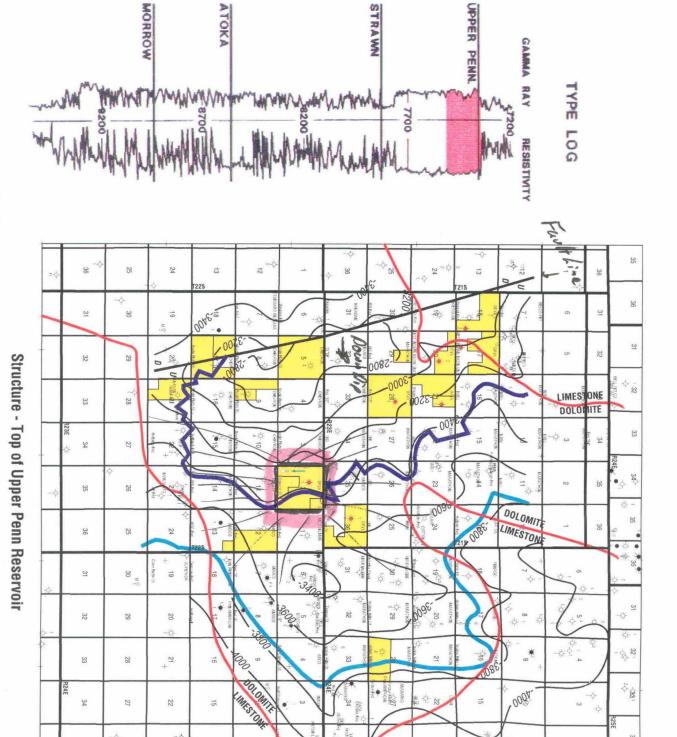
### CONOCO STATE #2 INDIAN BASIN (UPPER PENN) GAS POOL EDDY COUNTY, NEW MEXICO

#### HEARING BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

**CASE NO. 11189** 

**JANUARY 19, 1995** 





**Oryx Energy Company** 

# Indian Basin Field

Eddy County, New Mexico

Operator Map

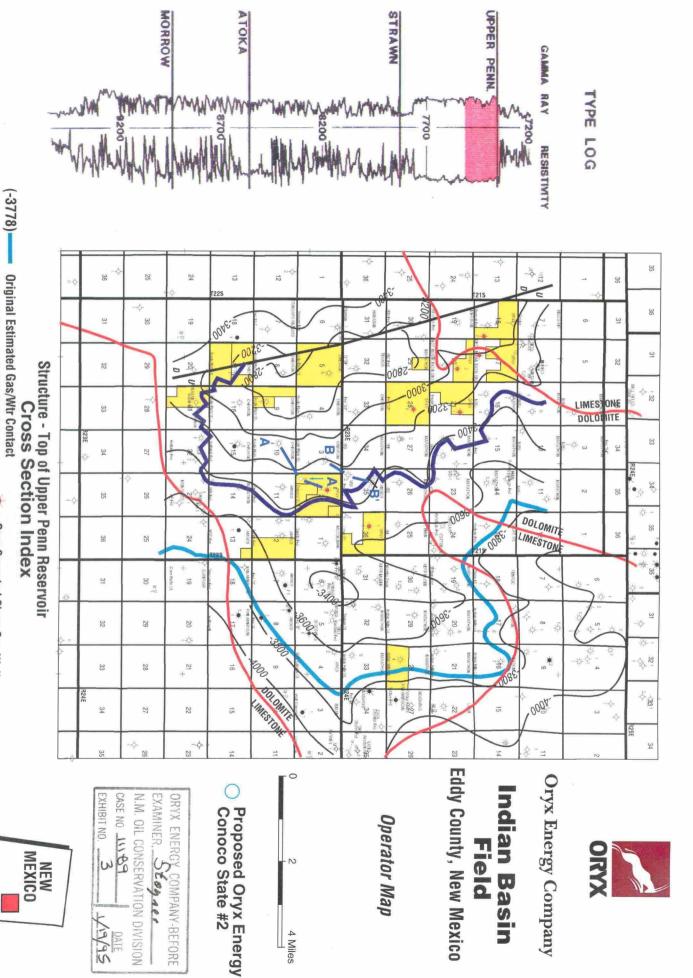
4 Miles

Proposed Oryx Energy Conoco State #2

-0

1/19/	2	EXHIBIT NO.
DATE	1189	CASE NO.
TION DIVISION	1. OIL CONSERVATION	N.M. OIL C
134	Las	EXAMINER,
COMPANY-BEFORE	RGY COM	ORYX ENERGY





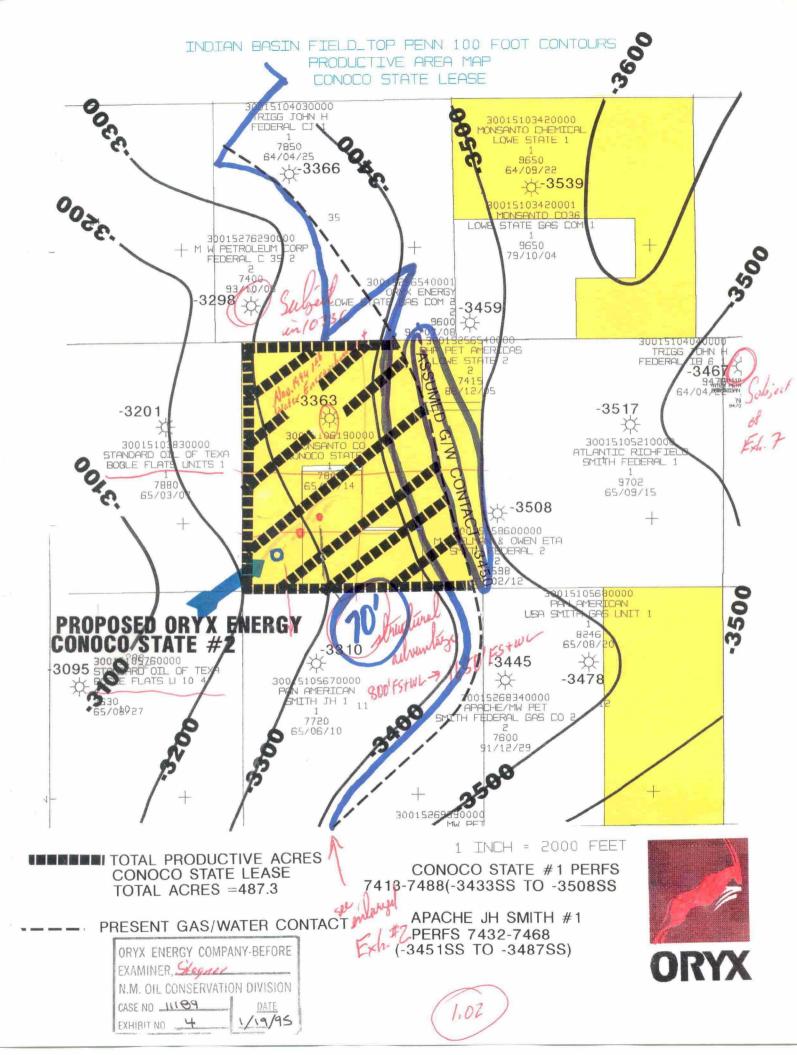
56/61/T

(-3450)-

Dolomite/Limestone Boundary Present Estimated Gas/Wtr Contact

Oryx Acreage

Oryx Operated Cisco Gas Wells



# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

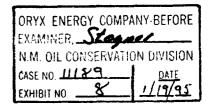
# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

# LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

## CONOCO STATE #2 SUMMARY OF REQUEST

- \* ORYX ENERGY REQUESTS THE NMOCD TO GRANT AN UNORTHODOX DRILLING LOCATION IN SECTION 2 TOWNSHIP 22 S RANGE 23 E AT 800' FSL AND 800' FWL.
- \* ORYX FURTHER REQUESTS AN ALLOCATION FACTOR OF .62 TO THE CONOCO STATE PRORATION UNIT.

\* ORYX FURTHER REQUESTS PERMISSION TO CONTINUE TO PRODUCE THE CONOCO STATE #1 WELL CONCURRENTLY WITH THE #2 WELL.



## CONOCO STATE #2 BASIS OF REQUEST

- \* ORYX CONTENDS THAT AS A PRUDENT OPERATOR, RESERVOIR MANAGEMENT WILL BE MAXIMIZED WITH THE USE OF TWO WELLBORES
  - ORYX WILL SHOW EXAMPLES OF BYPASSED GAS IN THE RESERVOIR
- \* ORYX FURTHER CONTENDS THAT OUR CORRELATIVE RIGHTS WILL BE IMPAIRED IF ORYX IS NOT ALLOWED TO PRODUCE THESE WELLS CONCURRENTLY.
  - ORYX WILL PRESENT PRODUCTION FROM OFFSET OPERATORS TO JUSTIFY THIS CLAIM.
  - GEOLOGIC / RESERVOIR DATA WILL BE PRESENTED SHOWING THE UNEVEN ENCROACHMENT OF WATER.

ORYX ENERGY COMPANY-BEFORE EXAMINER. Steunse					
N.M. OIL CONSERVATION					
CASE NO. 1189 EXHIBIT NO. 9	1/19/95				

### ORYX ENERGY ACREAGE FACTOR CALCULATION PROPOSED CONOCO STATE #1 & #2

ORYX ENERGY IS REQUESTING THE NMOCD APPROVE AN ACREAGE FACTOR OF .62 FOR GAS ALLOWABLE PURPOSES. ORYX REQUESTS THIS FACTOR BE APPLIED TO THE UNIT LOCATED IN SECTION 2 - T22S - R23E. THIS NUMBER IS CALCULATED BY AVERAGING THE FOLLOWING METHODS:

(1) PRODUCTIVE ACREAGE - BASED ON A DETAILED GEOLOGIC EVALUATION, SECTION 2 IS ESTIMATED TO HAVE 487 PRODUCTIVE ACRES:

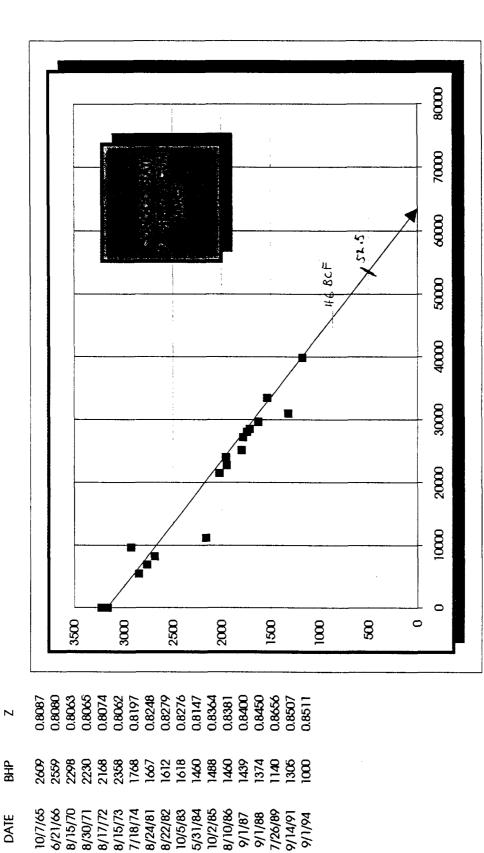
487 / 640 = .76 (76 % OF SECTION)

(2) DISTANCE RATIO METHOD - THE PERCENT DISTANCE FROM THE LEASELINE FOR THE PROPOSED UNORTHODOX LOCATION COMPARED TO A REGULAR LOCATION:

800' / 1650' = .48 (48 % OF DISTANCE)

THE AVERAGE OF THE ABOVE METHODS IS .62.

ORYX ENERGY COMPA	NY-BEFORE
EXAMINER,	
N.M. OIL CONSERVATION	ON DAYISION
CASE NO. 11189	DATE
EXHIBIT NO	1/19/95



LRP 1/13/95 ORYX ENERGY COMPANY-BEFORE N.M. OIL CONSERVATION DIVISION CASE NO. 11187 | DATE EXAMINER.

EXHIBIT NO.

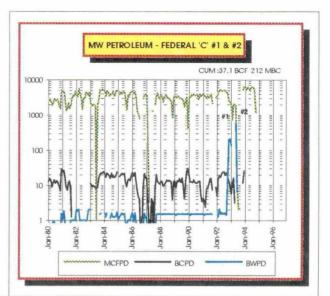
CONOCO STATE#1

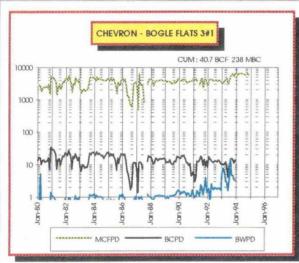
BHP/Z

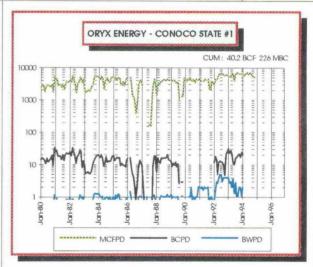
**CUM MIMCF** 

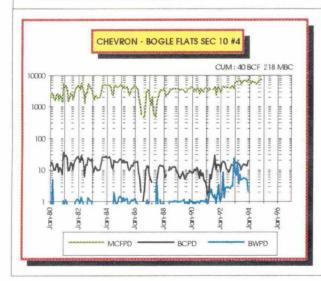
5435 6923 8268 9718 11249 21559 22080 25190 27230 28067 28635 29700 30989 33500

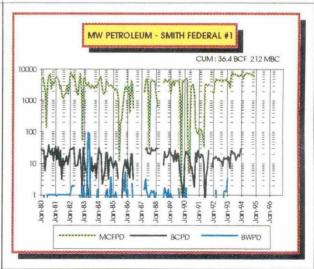
### INDIAN BASIN FIELD EDDY COUNTY, NM











ORYX ENERGY COMPANY-BEFORE
EXAMINER, Stages

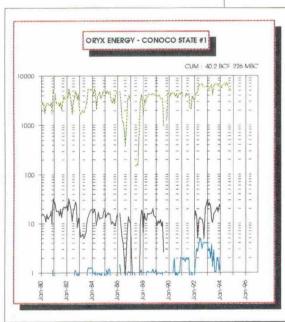
N.M. OIL CONSERVATION DIVISION
CASE NO. 11189
EXHIBIT NO. 12 1/19/95

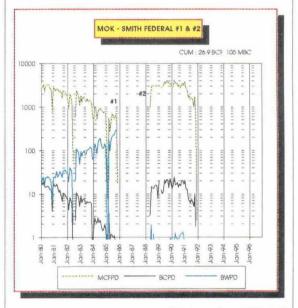
#### INDIAN BASIN FIELD EDDY COUNTY, NEW MEXICO

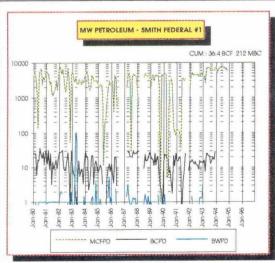
ORYX ENERGY COMPANY-BEFORE EXAMINER,

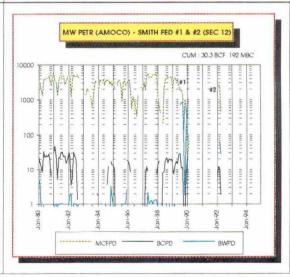
N.M. OIL CONSERVATION DIVISION CASE NO. 1189

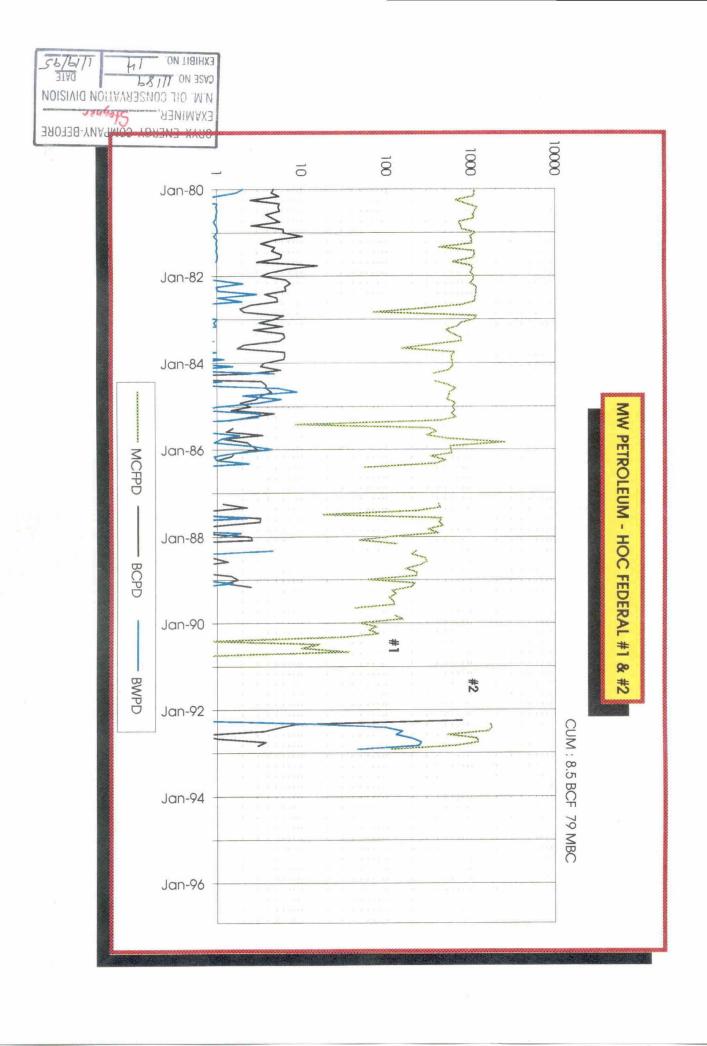
EXHIBIT NO. 13 1/19/95





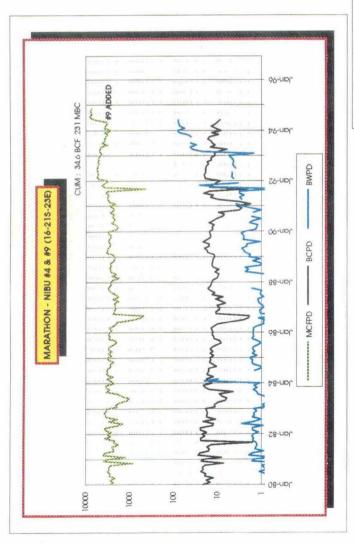




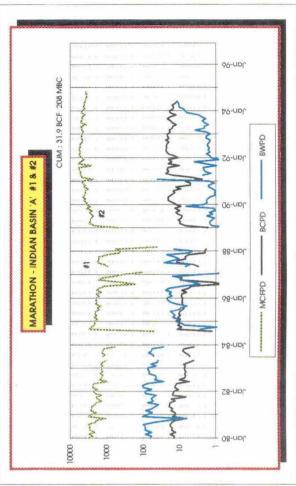


# INDIAN BASIN FIELD

# EDDY COUNTY, NEW MEXICO



SECTION 22 - 21S - 23E



SECTION 16 - 215 - 23E

ORYX ENERGY COMPANY-BEFORE EXAMINER,

N.M. OIL CONSERVATION DIVISION CASE NO. 11189 DATE EXHIBIT NO. 15 1/19/93

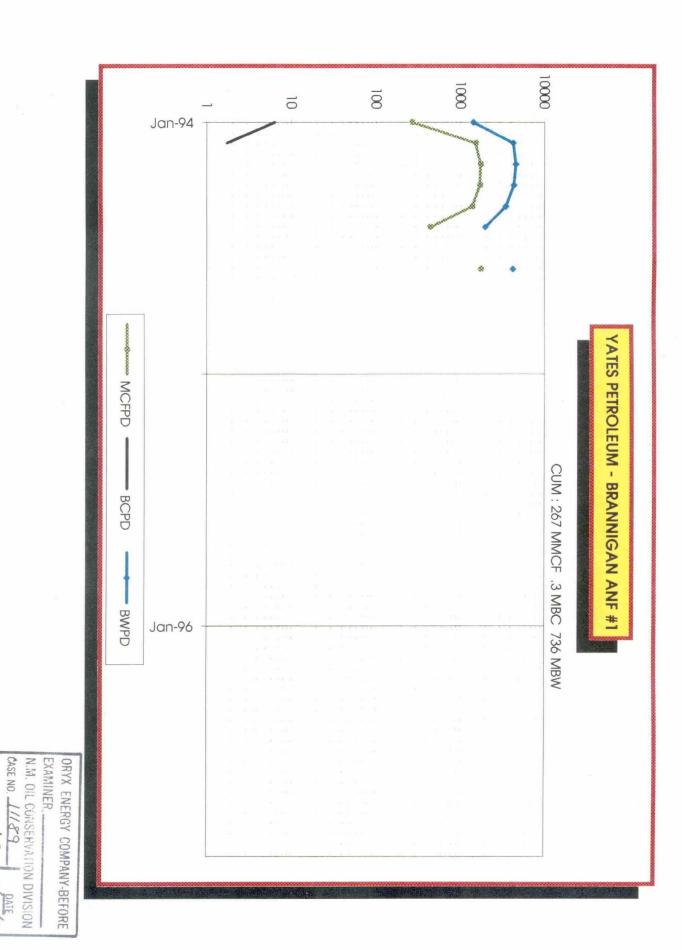


EXHIBIT NO.

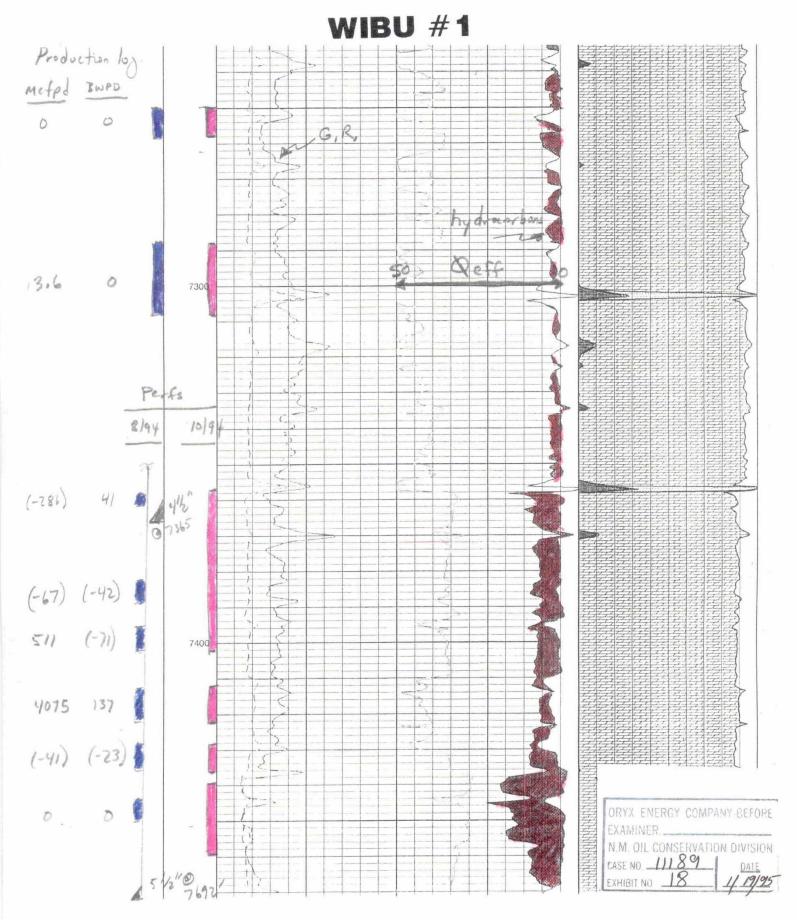
### **INDIAN BASIN**

### WATER ENCROACHMENT EXAMPLE #1 WIBU #1

GL: 4037' ILB: 10' AGL		
95/3°,32# (se, @ 1574' (cmt'd ul 920 sxs)	27/8", 6.5#, J-55 3rd +69, (2) 'x' nipple @ 717 (3) Model R'plu @ 71	)0'
TOC @ 6571 '/calc.) in 83/4" hole, 300 srs.	(3) Model (C) p(c) 971  Perfs  (63 '92 '94	
		i pf
	7750.	
	7 7288' 7308 7357	
41/2", 11.35 = K58@ 7765' (cont returns to surface)	7362 736	,3′
	7388 7396 740 7402	01
	7422'	
ORYX ENERGY COMPANY BEFORE EXAMINER.	7436' 7436'	39/
CASE NO. 11189 DATE EXHIBIT NO. 17 1/19/95	Y	159
51/2" 15.5+17=135, 57492" PATA-7107" TA- 2015	AL X Y	

### **INDIAN BASIN**

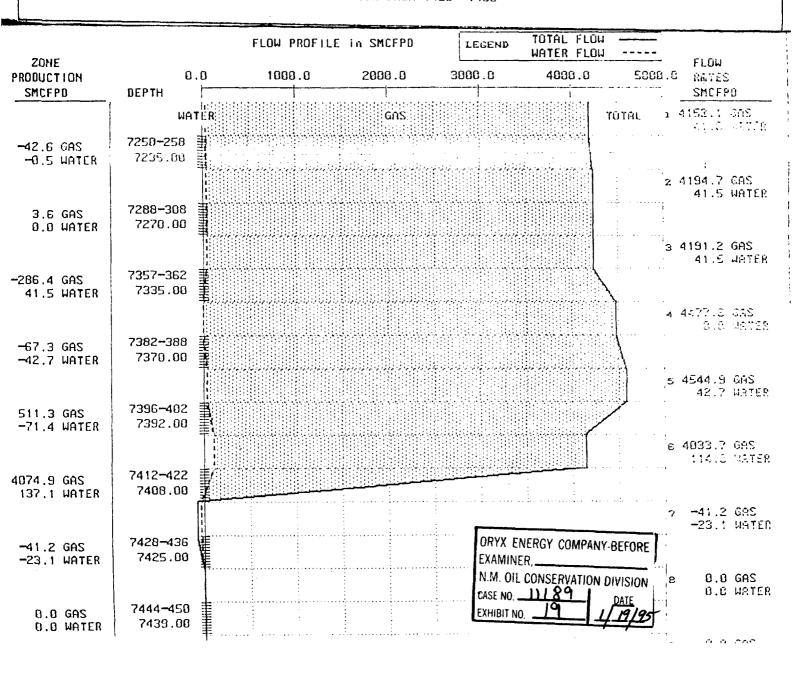
### WATER ENCROACHMENT EXAMPLE #1



# INDIAN BASIN WATER ENCROACHMENT EXAMPLE #1 WIBU #1

PEN 4.5

LOG INDICATES MAJORITY OF GAS BEING PRODUCE FROM PERFORATIONS AT 7412'-7420'. THE ZONE AT 7396'-7402' IS PRODUCING GAS AS WELL. THE REST OF UPPER PERFS. SHOW TO BE CONTRIBUTING VERY LITTLE. STATIONARY READING AT 7425' INDICATES A VERY SMALL DOWNWARD FLOW FROM 7421' TO PERFORATIONS AT 7428'-7436'. MOST OF WATER PRODUCTION IS ALSO PROBABLY COMING FROM 7412'-7422' WITH POSSIBLY A VERY SLIGHT AMOUNT PRODUCTION FROM 7428'-7436'

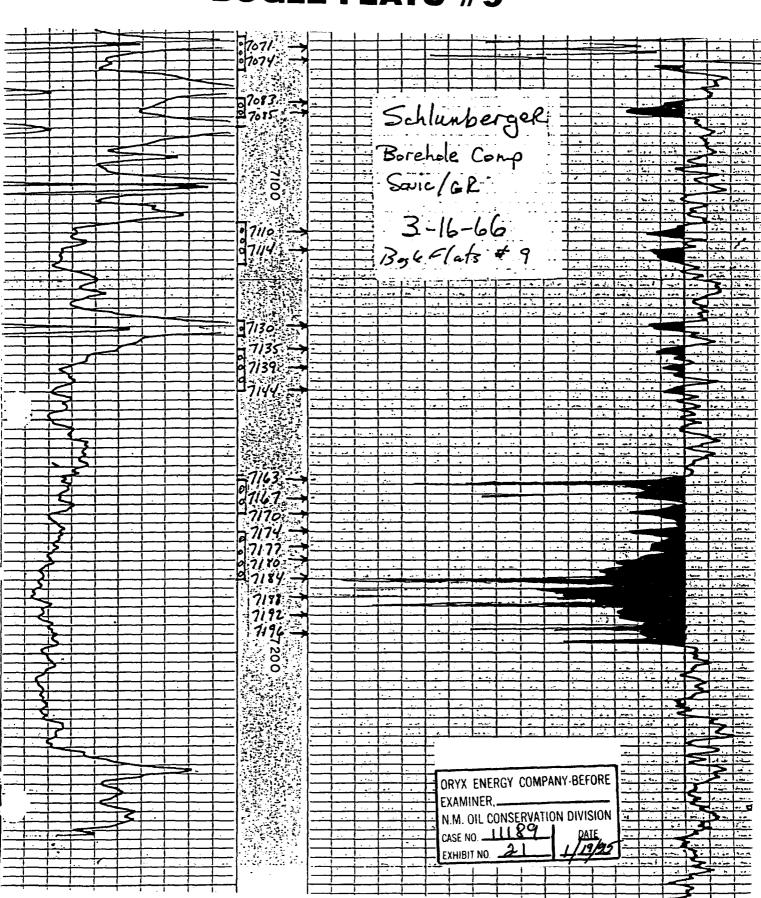


# INDIAN BASIN WATER ENCROACHMENT EXAMPLE #2 BOGLE FLATS #9

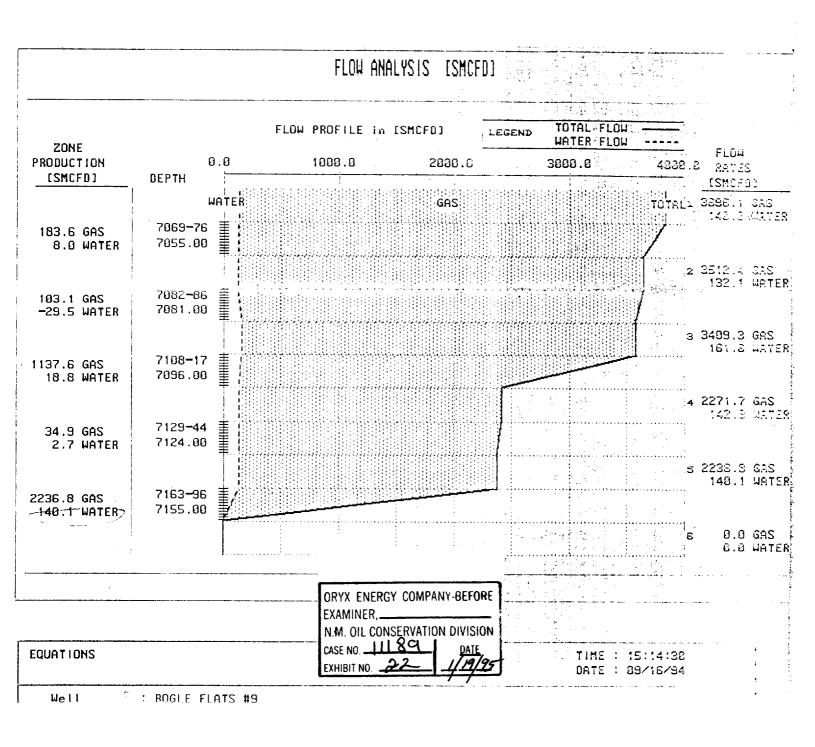
PERMANENT WELL BORE DATA	<del></del> .		<del></del>							DATA ON THIS COMPLETION
	,		<u> </u>	1			1.			DATA OF THIS COM ECTION
Zelo= GL = 13.9 'AGL	/ 53		_					<u> </u>	r	
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13-3/8" 48= H-40 P 312' W/ 550 5x5 CiRC		_			-		- ;-	1		
3121 W/ 550 545 CIPC		(4	l.					A	\- <u>-</u> -	_
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		(c.	ľ					4.	}	· · · · · · · · · · · · · · · · · · ·
		15		-		-		7		· · · · · · · · · · · · · · · · · · ·
121/4" Ible -2		10			-		-	٠ کر	<b> </b>	
	11	ے	ļ							
,		1.7		<i>:</i>			-	1-2		
		(5,		Ī.,				1	)	
8-78" 32 # J-55 @ 2280'	<del></del> (	\ <u>\</u>	-		-	-		4(	\- <u>-</u> -	-2-7/8" 6.5# J-55
W/950 5xs CIEC				-						The @ 7000'
W/ 130 022 12/20										
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		· · · · · · · · · · · · · · · · · · ·	] _	_				)		3.46" Collars
·	<u> </u>		(	Ī			-	<u></u>	<u>:                                    </u>	M-1'R" PKR@ = 699Z
								<u> </u>		SNO + 6992'
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7-7/8" Hole -			1		<u> </u>					
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TOCO 6163' CAC-		-	— >).				-			
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- ORYX ENERGY COMPANY-BEFORE			<u>^</u>				ς <u>γ</u>			URDER PENN
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N.M. OIL CONSERVATION DIVISION			Ä,		<u> </u>		٠		458	
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41/2" and 7 == 0			<u>\$</u> .						··· ·	•
41/2" 9,5 + J-55 B			1		۲-	1-5	2			
7263' W 250 SXS	-	(								
				-			^	′		-

### INDIAN BASIN

### WATER ENCROACHMENT EXAMPLE #2 BOGLE FLATS #9



# INDIAN BASIN WATER ENCROACHMENT EXAMPLE #2 BOGLE FLATS #9



## INDIAN BASIN WATER ENCROACHMENT EXAMPLE #3 BOGLE FLATS #8

#### STATE 'DF'

3.5 MMCFPD, 7 BOPD, 1 BWPD

FEDERAL #33

6.8MMCFPD 9BOPD, 0BWPD

**BOGLE FLATS #8** 

4.0 MMCFPD, 7 BOPD, 300 BWPD

**BOGLE FLATS #2** 

6.7 MMCFPD, 12 BOPD, 2 BWPD

**BOGLE FLATS #6** 

7.2 MMCFPD, 7 BOPD, 8 BWPD

**BOGLE FLATS #3** 

7.5 MMCFPD, 13 BOPD, 2 BWPD

ORYX ENER	lGY (,(j.v.)	PANY REFORE
I KAMINER. N.M. OIL CO		enterviewa
CASE NO	23	1/0/95

