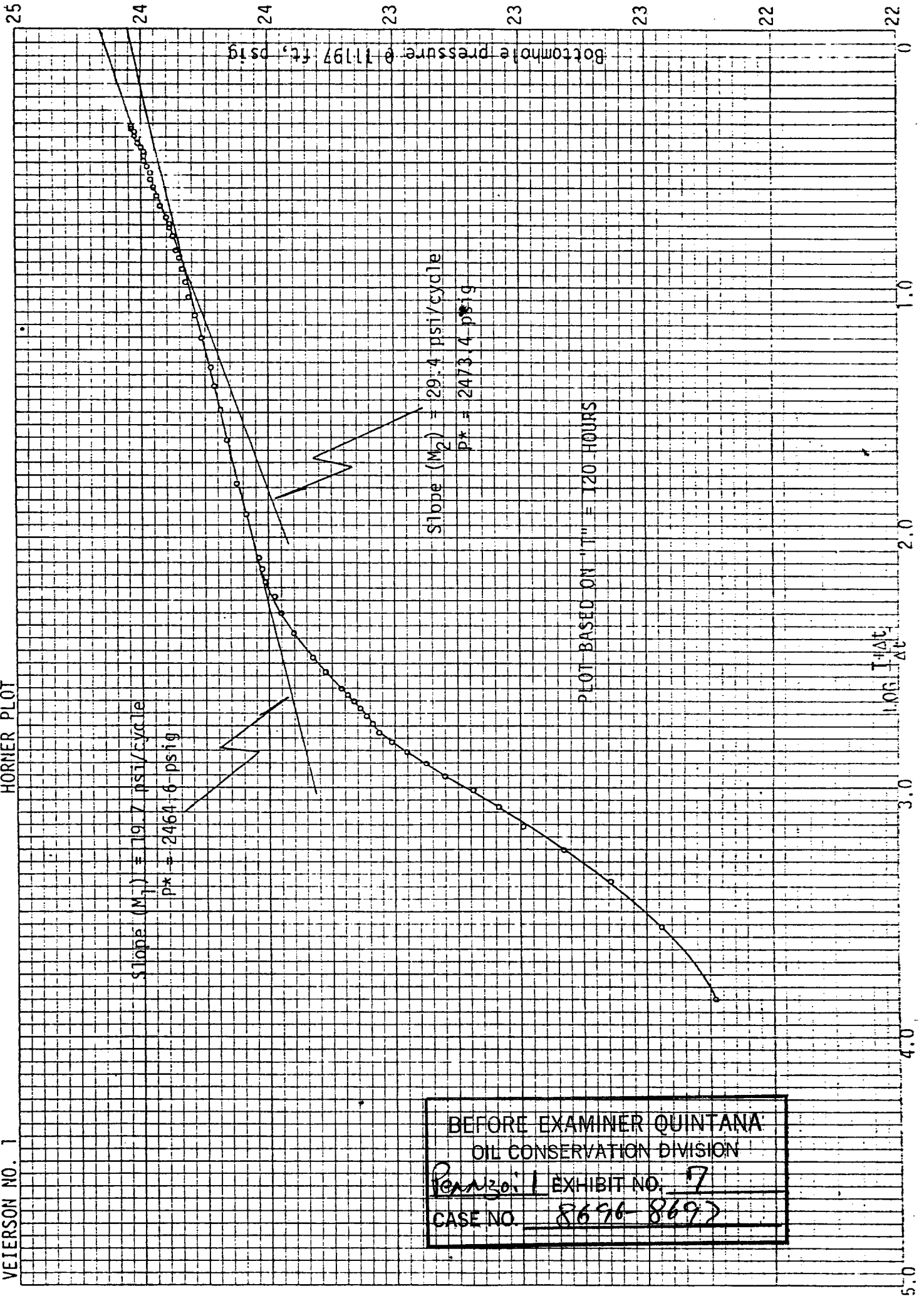


PENNZOIL COMPANY
VETTERSON NO. 1

TEFTELLER, INC.

HORNER PLOT



Slope (M_1) = 19.7 psi/cycle
 $p^* = 2464.6$ psig

Slope (M_2) = 29.4 psi/cycle
 $p^* = 2473.4$ psig

PLOT BASED ON T=120 HOURS

BEFORE EXAMINER QUINTANA
OIL CONSERVATION DIVISION
PENNZOIL EXHIBIT NO. 7
CASE NO. 8696-8697

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PENNZOIL COMPANY
 PENNZOIL #1 VIERSEN
 WILDCAT
 LEA COUNTY, NEW MEXICO

DATE : 8-4-85
 FORMATION : LOWER STRAWN
 DRG. FLUID:
 LOCATION : 660' FEL & 2130' FSL, SEC. 4, T-17-S, R-37-E
 FILE NO. : 32020-14776
 API WELL NO. :
 LABORATORY : MIDLAND, TEXAS

FULL DIAMETER ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MAXIMUM	PERM 90 DEG	HE FOR	OIL% FOR	WTR% FOR	GRAIN DEN M	DESCRIPTION	MD,	
									LM	VF
CORE #1 11158.0-11216.0 CUT 58' REC 3'										
1	11158.0-59.0	218.	209.	11.4	11.3	38.7	2.73	LM VF F V FOSS		
2	11159.0-60.0	7.4	0.13	7.3	10.5	42.1	2.68	LM V FOSS		
3	11160.0-61.0	0.19	0.14	8.0	6.7	40.0	2.69	LM V FOSS		
	11161.0-16.0							LOST CORE		

BEFORE EXAMINER QUINTANA OIL CONSERVATION DIVISION	
Pennzoil	EXHIBIT NO. 8
CASE NO.	8696-8697

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or

EXHIBIT
RESERVIOR PARAMETERS & DRAINAGE CALCULATIONS
VIERSEN #1

Permeability: $K = .043$ Darcies*

Thickness: $H = 74$ Feet

Static Reservoir Pressure: $P_e = 2473$ PSIG*

Flowing Pressure: $P_w = 2258$ PSIG ← Bottom hole

Oil Viscosity: $\mu = .38$ Centipoise

Formation Volume Factor: $B_o = 1.42$ $\frac{\text{Reservoir Barrel}}{\text{Stock Tank Barrel}}$

Well Bore Radius: $r_w = .33$ Feet

Flow rate: $q = 878$ Barrels/day

24 hr prod. before shutin

$$\ln \frac{r_e}{r_w} = \frac{7.08 Kh (P_e - P_w)}{\mu B_o q}$$

$$\ln \frac{r_e}{.33} = \frac{7.08 (.043) (74) (2473 - 2258)}{.38 (1.42) (878)}$$

$$r_e = 9,090 \text{ Ft.}$$

* From pressure build up - Hoerner analysis

BEFORE EXAMINER QUINTANA
OIL CONSERVATION DIVISION

Renzoni / EXHIBIT NO. 9

CASE NO. 8696-8697

BARRELS OF OIL PER DAY

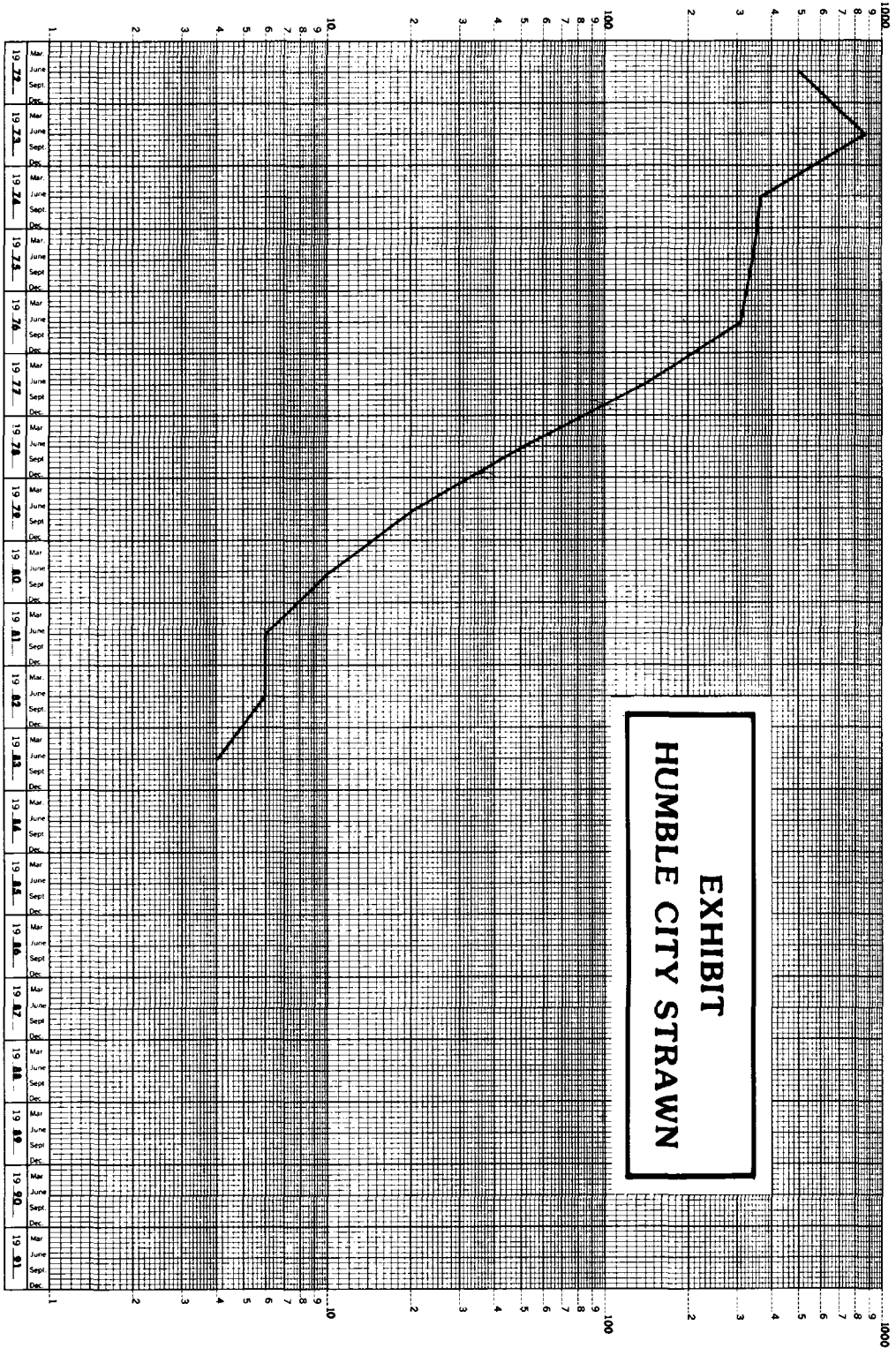
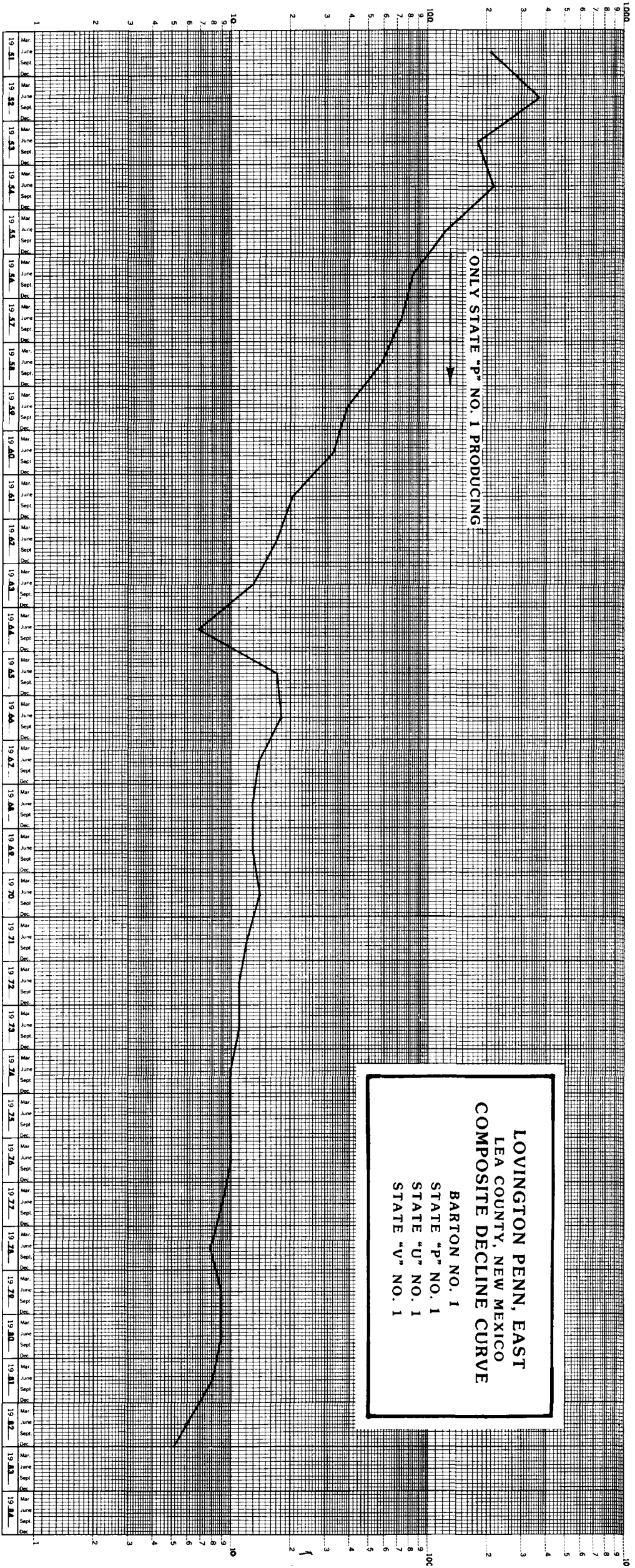


EXHIBIT
HUMBLE CITY STRAWN

BEFORE EXAMINER QUINTANA
 OIL CONSERVATION DIVISION
Renzoni EXHIBIT NO. 10
 CASE NO. 8696-8697

BARRELS OF OIL PER DAY



LOVINGTON PENN, EAST
 LEA COUNTY, NEW MEXICO
 COMPOSITE DECLINE CURVE
 BARTON NO. 1
 STATE "P" NO. 1
 STATE "U" NO. 1
 STATE "V" NO. 1

BEFORE EXAMINER QUINTANA
 OIL CONSERVATION DIVISION
Raygoil EXHIBIT NO. 11
 CASE NO. 8696-8697