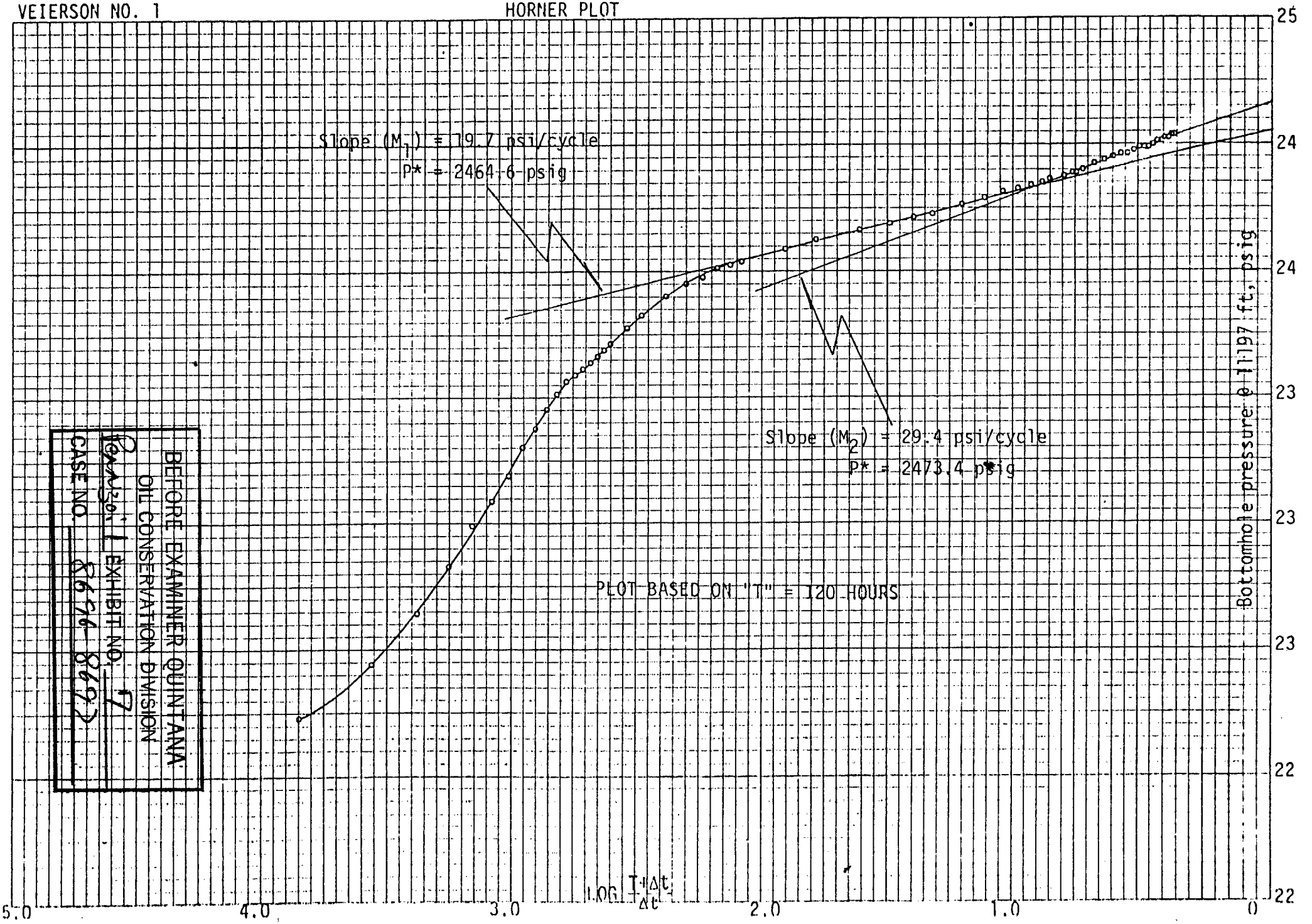
PENNZOIL COMPANY
VEIERSON NO. 1

HORNER PLOT

TEFTELLER, INC.



BEFORE EXAMINER QUINTANA
OIL CONSERVATION DIVISION
CONSERVATION EXHIBIT NO. 7
CASE NO. 8676 8677

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

DATE : 8-4-85
FORMATION : LOWER STRAWN
DRLG. 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 md,	PERM 90 DEG	HE POR	OIL% POR	WTR% POR	GRAIN DEN M	DESCRIPTION
	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

EXHIBIT
RESERVIOR PARAMETERS & DRAINAGE CALCULATIONS
VIERSEN #1

Permeability: K = .043 Darcies*

Thickness: H = 74 Feet

Static Reservior Pressure: Pe = 2473 PSIG*

Flowing Pressure: Pw = 2258 PSIG ← Bottom hole

Oil Viscosity: u = .38 Centipoise

Formation Volume Factor: Bo = 1.42 $\frac{\text{Reservior Barrel}}{\text{Stock Tank Barrel}}$

Well Bore Radius: rw = .33 Feet

Flow rate: q = 878 Barrels/day

24 hr prod. before shutin

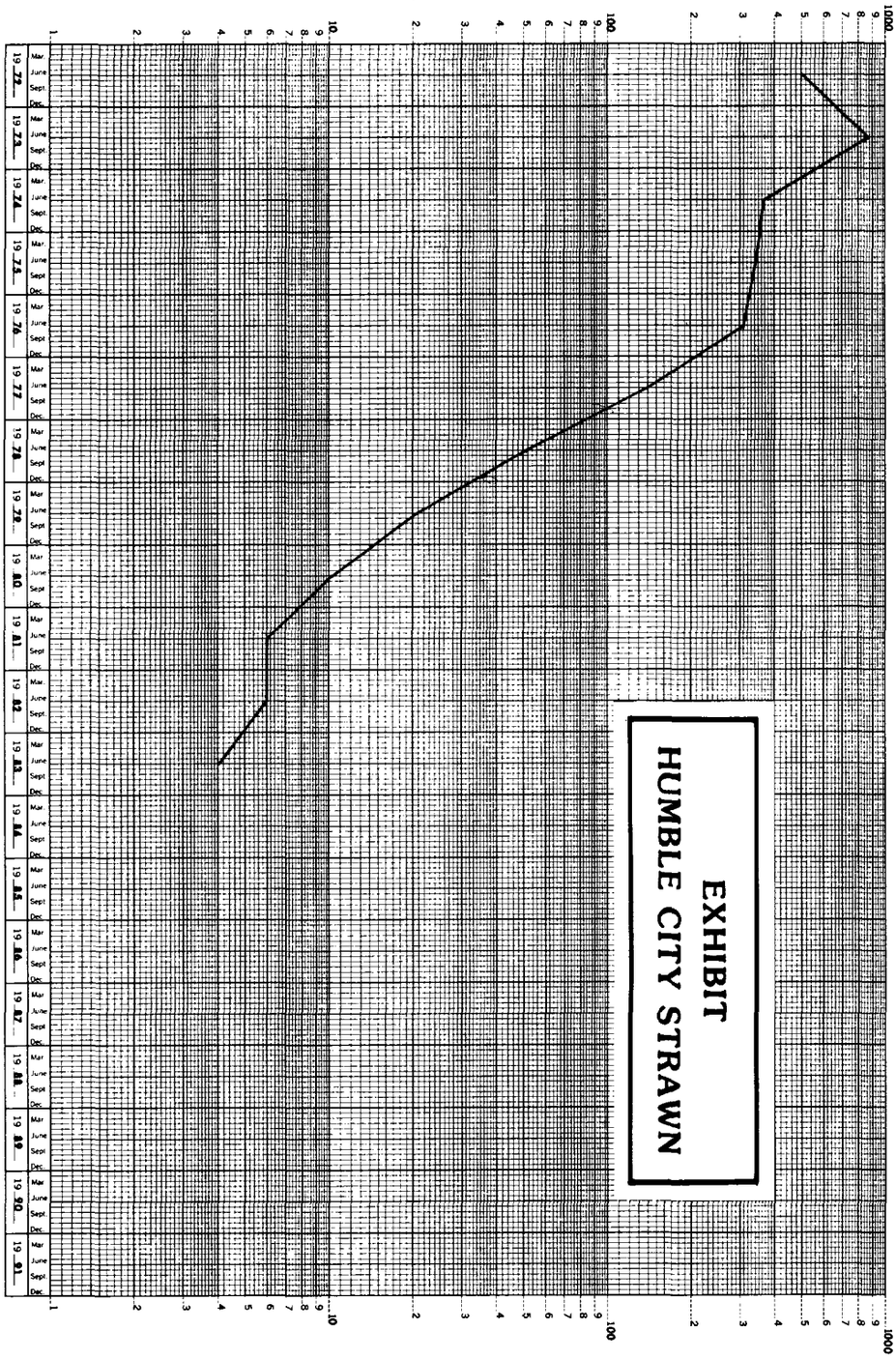
$$\text{Ln } \frac{re}{rw} = \frac{7.08\ Kh\ (Pe-Pw)}{uBo\ q}$$

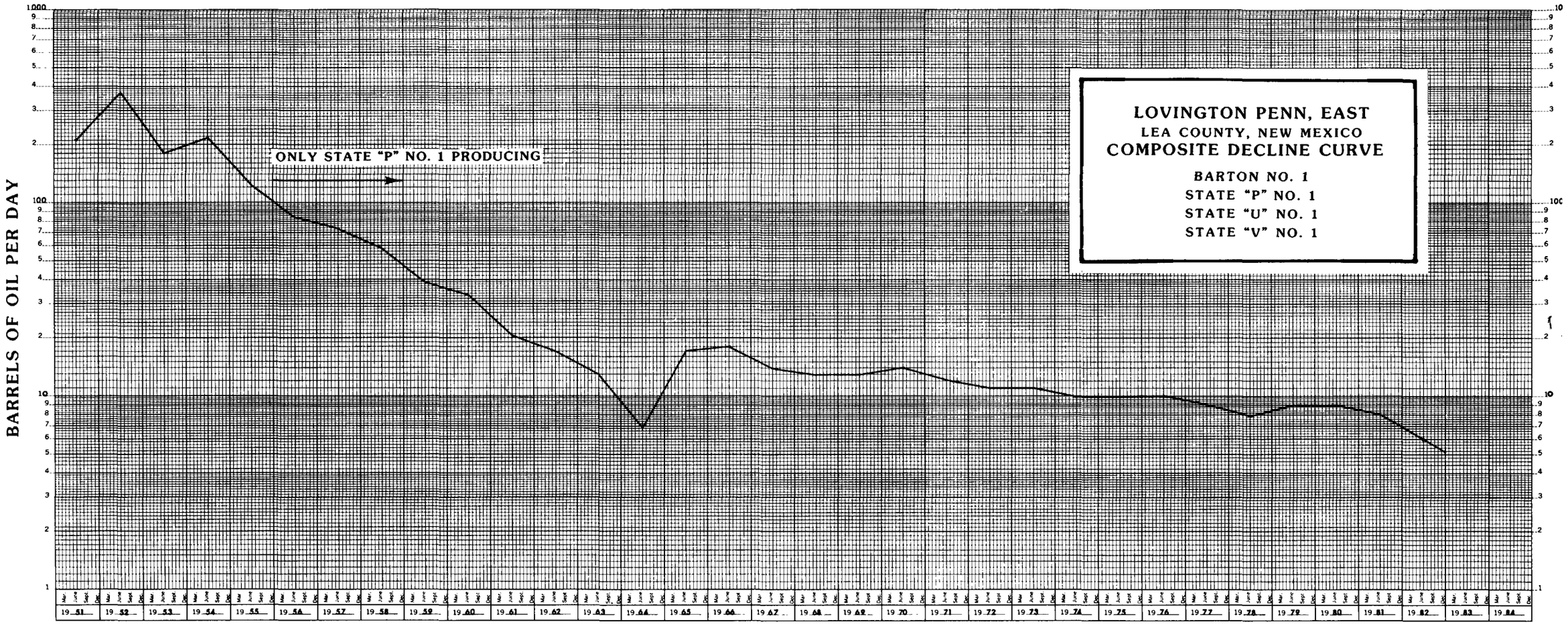
$$\text{Ln } \frac{re}{.33} = \frac{7.08\ (.043)\ (74)\ (2473-2258)}{.38\ (1.42)\ (878)}$$

Re = 9,090 Ft.

* From pressure build up - Hoerner analysis

BEFORE EXAMINER QUINTANA
OIL CONSERVATION DIVISION
Pennzoil EXHIBIT NO. 9
CASE NO. 8696-8697





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