

EXHIBIT NO. 5

MEASURED ORIGINAL PRESSURES COMPARED TO CALCULATED ORIGINAL PRESSURES

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Well	Date	Original Measured	Pressures Calculated	Calculated Press. From Measured Press.	Drawdown From Orig. Res. Press. Actual	Calc.
Britt B #9	8-14-59	2612	-	-	-	--
Britt B #10	8-20-60	2531	2557	-1.03	81	55
Britt B #11	12-5-60	2183*	2523	-15.55	429	89
Britt B #14	10-29-62	2349	2386	-1.58	263	226
Britt B #18	6-24-63	2520	2468	+2.06	92	144
Britt B #19	9-23-63	2441	2391	+2.04	171	221
Britt B #20	3-27-64	2233	2425	-8.60	379	187
Britt B #21	4-24-64	2483	2402	+3.25	129	210
Britt B #22	6-28-64	2297	2356	-2.58	315	256

*Pumping Well - Pressure not completely built up.

EXAMPLE CALCULATION:

Calculated original pressure in Britt B No. 10 after producing Britt B No. 9 at a rate of 77 BOPD for 371 days.

$$P_{\#10} = P_{\#9} + \frac{qu B_o}{14.16 kh} Ei \left[\frac{-r^2}{4 nt} \right]$$

where: $q = 77 \text{ BOPD}$, $h = 30'$

$u = .715 \text{ cp}$, $r = 1700'$

$B_o = 1.35$, $t = 371 \text{ days}$

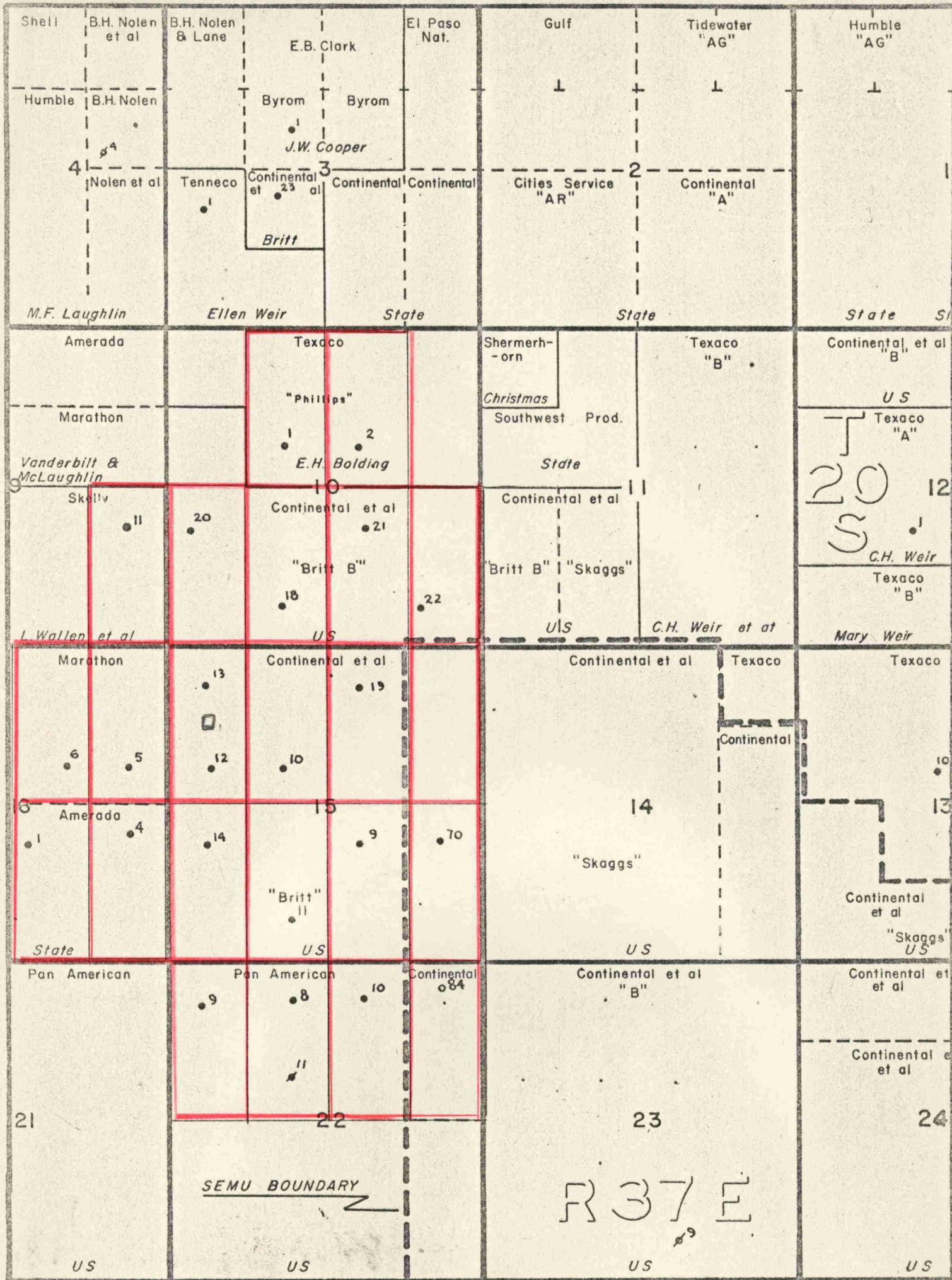
$k = .0105 \text{ darcies}$, $C_e = 10.8 \times 10^{-6} \text{ psi/psi}$, $\phi = 10.8\%$

$$n = \frac{(6.32)(k)}{u C_e \phi} = 7.96 \times 10^4$$

$$P_{10} = 2612 + \frac{(77)(.715)(1.35)}{(14.16)(.0105)(30)} Ei \left[\frac{-2.88 \times 10^6}{(4)(7.96 \times 10^4)(371)} \right]$$

$$P_{10} \approx 2612 - 55 = 2557 \text{ psi}$$

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
<u> A </u>	EXHIBIT NO. <u> 5 </u>
CASE NO. <u> 3123 </u>	



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 6
CASE NO. 3123

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT
HOBBS DISTRICT
MONUMENT TUBB POOL
Lea County, New Mexico
Proposed Proration Units

SCALE
0' 1000' 2000'

EXHIBIT 6