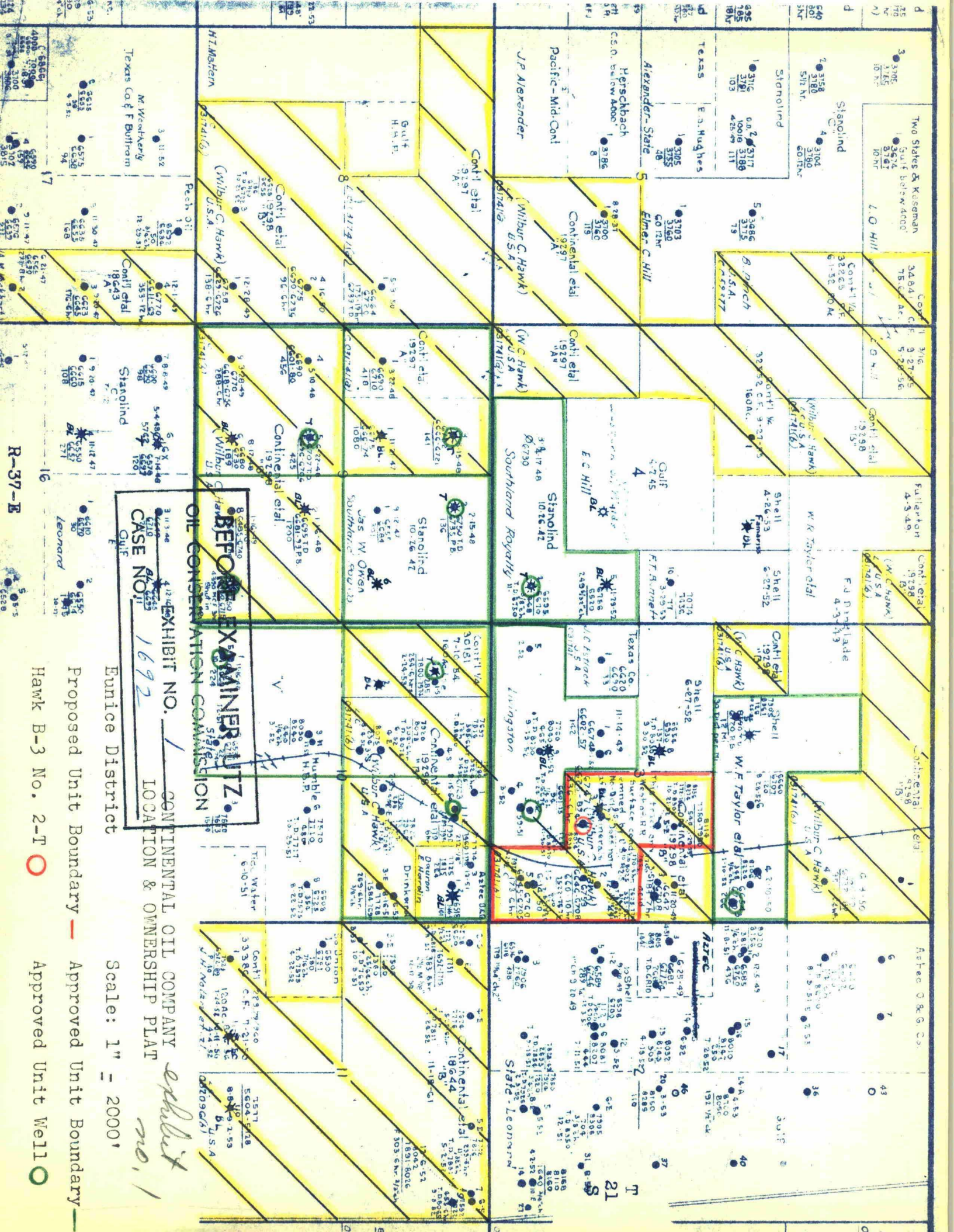




R-37-E

Hawk B-3 No. 2-T

Approved Unit Boundary

no. 1

Unice District

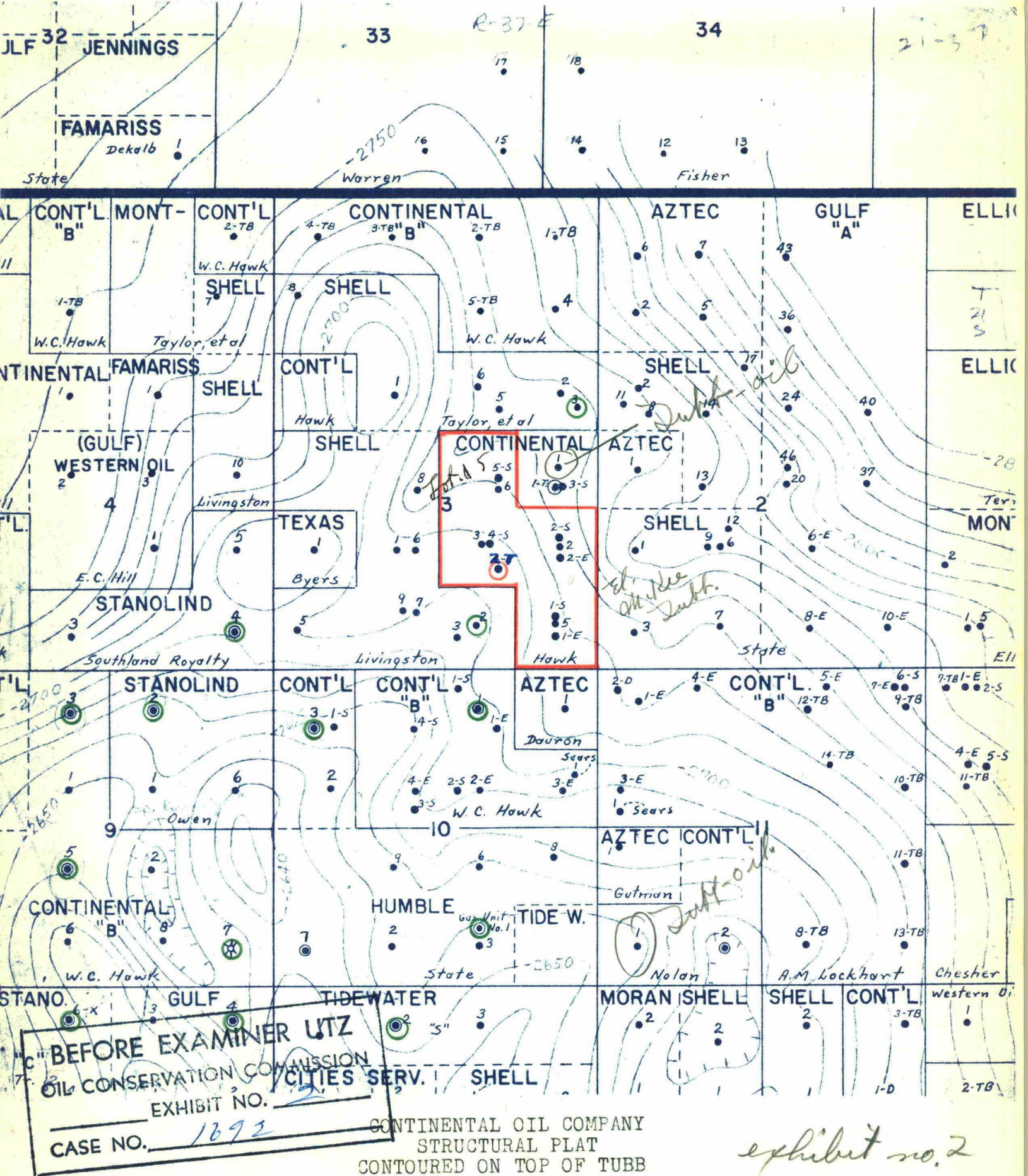
Scale: 1" = 2000'

EXHIBIT NO. 1

CONTINENTAL OIL COMPANY LOCATION & OWNERSHIP PLAT

REFORESTATION COMMISSION

no. 1



Hawk B-3 No. 2-T ○

Proposed Gas Unit —

Scale: 1" = 2000'

exhibit no. 2

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. NEW MEXICO OIL CONSERVATION COMMISSION
CASE NO. 1692

Exhibit no 4

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool _____ Tubb _____ Formation _____ Tubb _____ County _____ Lea _____
Initial X Annual _____ Special _____ Date of Test May 13, 1959
Company Continental Oil Company Lease Hawk B-3 Well No. 2
Unit R Sec. 3 Twp. 21 Rge. 37 Purchaser El Paso Nat. Gas Company
Casing 5 1/2 Wt. 17 I.D. 4.892 Set at 8069 Perf. 6220 To 6345
Tubing 2 1/2 Wt. 6.5 I.D. 2.441 Set at 6142 Perf. -- To --
Gas Pay: From 6220 To 6345 L 6142 xG .691 -GL 4244 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 5-10-59 Packer 6142 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 102°F

OBSERVED DATA

Tested Through (Gauge) (Check) (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1582				72
1.	4"	1.750	618	69.5	51	1441	51			4 hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	19.27	209.45	631.2	1.0088	.9319	1.085	4.117
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 58,797 cf/bbl. Specific Gravity Separator Gas .691
Gravity of Liquid Hydrocarbons 58.6 deg. Specific Gravity Flowing Fluid .744
P_c 5,866 (1-e⁻⁸) .253 P_c 1595.2 P_c 2544.663

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	1454.2	2114.70	24.150	583.22	147.56	2262.15	282.51	1504.05	94.29
2.									
3.									
4.									
5.									

Absolute Potential: 37,000 MCFPD; n 1.000
COMPANY Continental Oil Company
ADDRESS Box 68, Eunice, New Mexico
AGENT and TITLE Dist. Supt.
WITNESSED _____
COMPANY _____

REMARKS

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

Company: Continental Oil Company
Well: Hawk B-3 No. 2
Location: Unit R, Section 3-21-37
Pool: Tubb
Date: 5-13-59

Calculated O. F. = 37,000 MCF
 $Q_1 = 411.7$
Slope = 1.000

Pc2-Pw2 (Thsnds)

K·E LOGARITHMIC 359-110
KEUFFEL & ESSER CO. MADE IN U.S.A.
2 X 2 CYCLES

1000
100

1.5

2.5

3

4

5

6

7

8

9

10

10,000

1.5

2

2.5

3

4

5

6

7

8

9

10

37,000 MCF/D

Q = MCFPD