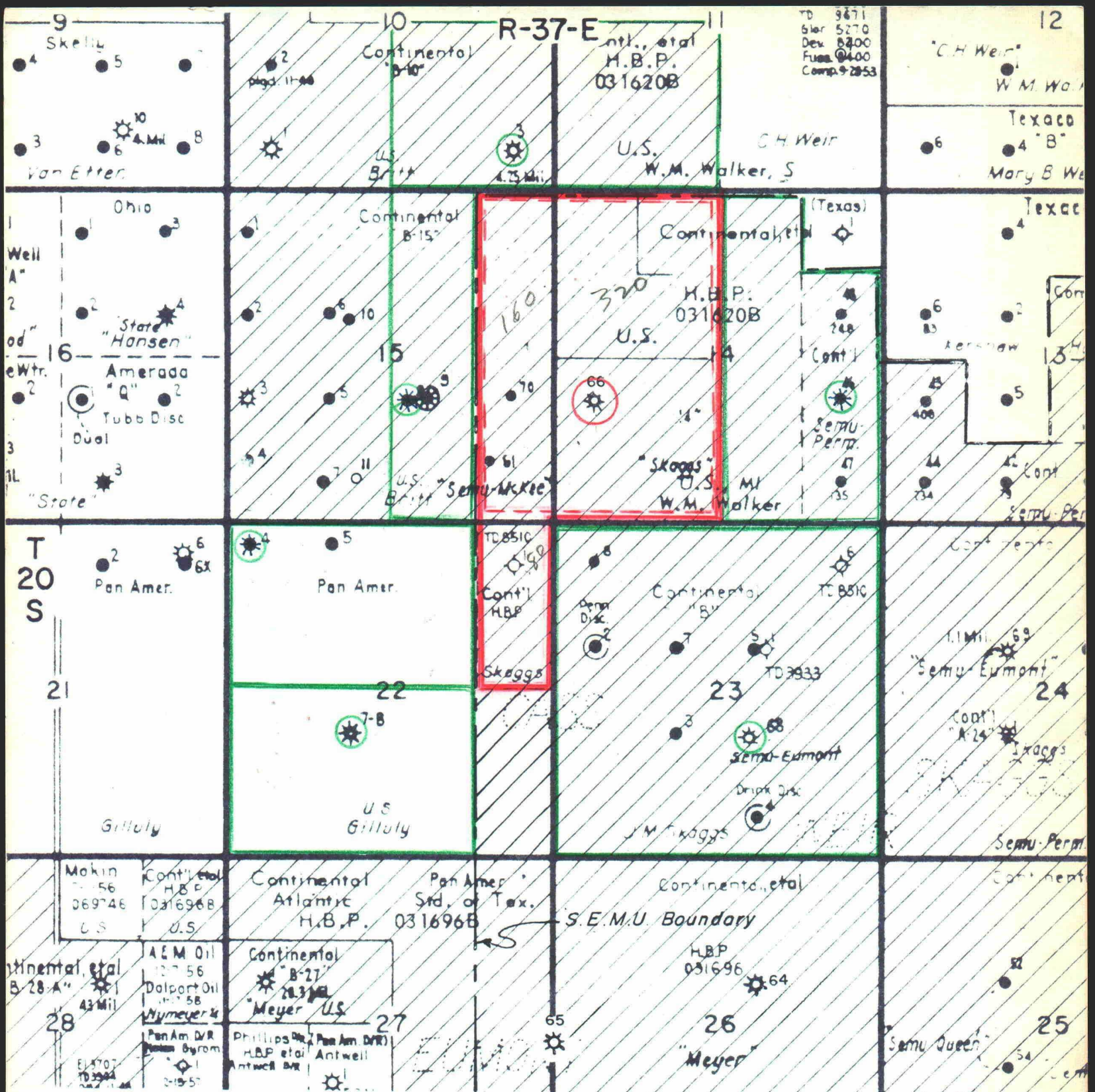




BEFORE EXAMINER UTZ
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. 1
 CASE NO. 2190

OWNERSHIP MAP - EUMONT AREA
 scale: 1" = 2000'

LEGEND

- SEM-Umout No.66 Gas Well
- Present Gas Unit No.66
- Proposed Gas Unit No.66
- Continental Acreage Cross-hatched
- Offset Gas Well
- Offset Gas Unit

CASE: 2190
 EXHIBIT: 1

Continental Oil Co.

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Emmont Formation Queen County Lea
 Initial _____ Annual _____ Special X Date of Test 2-17-61
 Company Continental Oil Company Lease SEU Emmont Well No. 66
 Unit L Sec. 14 Twp. 208 Rge. 77E Purchaser E.P.H.G.
 Casing 5 1/2 Wt. 14 I.D. 5.012 Set at 3799 Perf. 3548 To 3707
 Tubing 2 Wt. 4.7 I.D. 1.995 Set at 3463 Perf. - To -
 Gas Pay: From 3548 To 3707 L 3548 xG .673 -GL 2388 Bar.Press. 13.2
 Producing Thru: Casing _____ Tubing X Type Well Single
 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 6-20-56 Packer None Reservoir Temp. 90°

OBSERVED DATA

Tested Through 3/8" (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						853		853		80
1.	4.000	1.000	808	23.04	73			815		22
2.	4.000	1.000	815	21.81	69			803		22
3.	4.000	1.000	812	22.09	66			775		22
4.	4.000	1.000	819	25.69	67			756		22
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.	6.135	119.63		.9877	.9427	1.067	729
2.	6.135	141.36		.9915	.9427	1.097	889
3.	6.135	197.03		.9943	.9427	1.093	1,238
4.	6.135	218.75		.9933	.9427	1.076	1,352
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio - cf/bbl.
 Gravity of Liquid Hydrocarbons - deg.
 P_c 9.936 (1-e^{-s}) 0.152
 Specific Gravity Separator Gas -
 Specific Gravity Flowing Fluid -
 P_c 866.2 P_c² 750.3

No.	P _w X _{Rt} (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	828.2					685.9	64.4	-	.9561
2.	816.2					666.2	84.1	-	.9423
3.	788.2		MEASURED			621.3	129.0	-	.9100
4.	769.2					591.7	158.6	-	.8880*
5.									

Absolute Potential: 4,100 MCFPD; n .70
 COMPANY Continental Oil Company
 ADDRESS Box 427, Hobbs, N. M.
 AGENT and TITLE M. D. Howard, Test Engineer
 WITNESSED _____
 COMPANY _____

BEFORE EXAMINER UTZ
 OIL CONSERVATION COMMISSION
 REMARKS Cont. EXHIBIT NO. 2
 CASE NO. 2190

*Insufficient drawdown due to small orifice size.

Case: 2190

Exhibit: 2

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressibility factor.

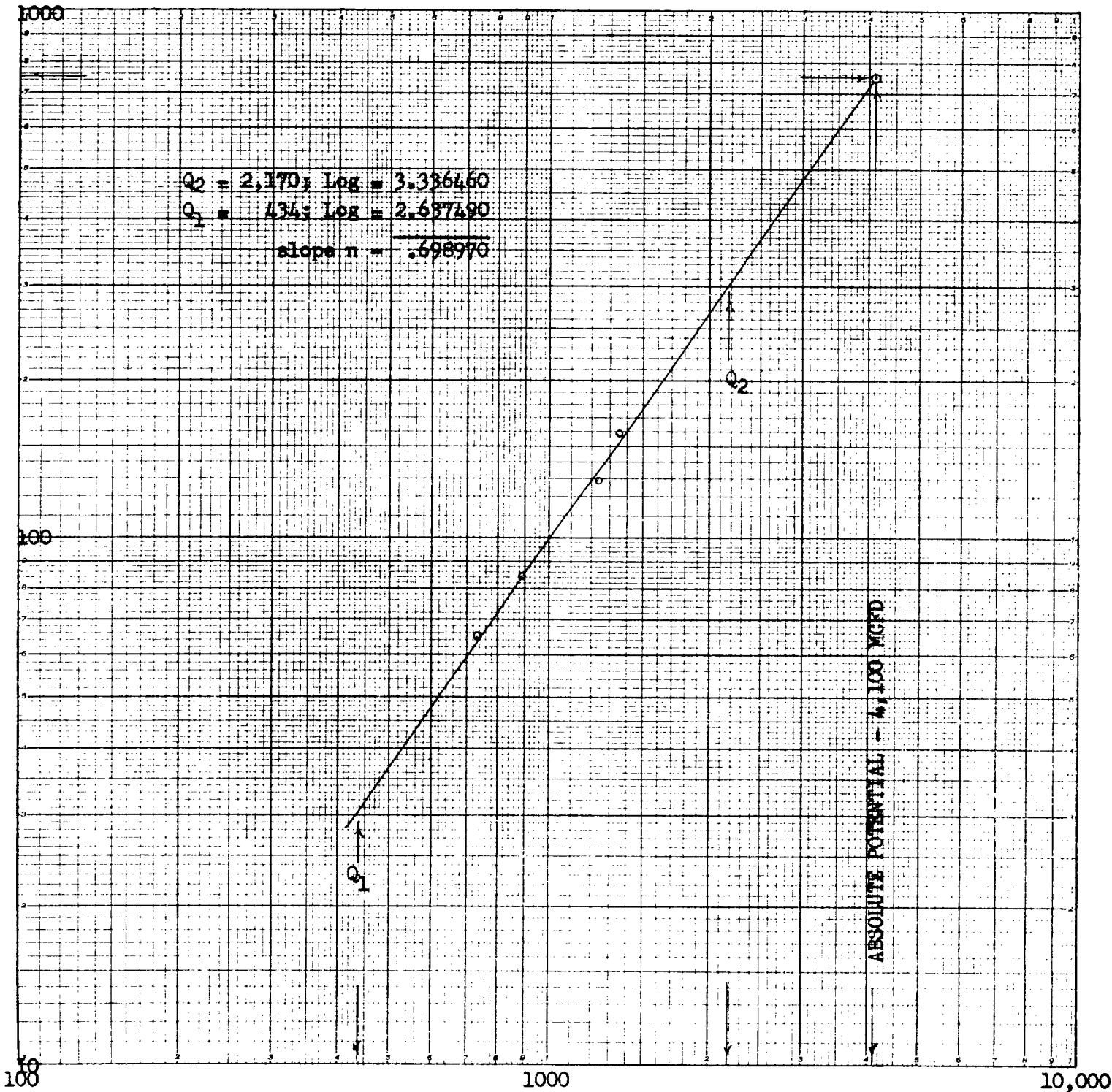
n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

COMPANY Continental Oil Co.
 WELL SEMU-Eumont No.66
 LOCATION L Sec. 14-20S-37E
 COUNTY Lea
 DATE 2-17-61

CODING BOOK COMPANY, INC. NORWOOD, MASSACHUSETTS.
 PRINTED IN U.S.A.

NO. 31.291 LOGARITHMIC: 2 BY 2 3/4 INCH CYCLES (BASE SHORT WAY).
 $\frac{p_c^2 - p_w^2}{Q}$ (thousands)



Q - MCFD - 15.025 psia.