

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County San Juan
Initial X Annual SE Special _____ Date of Test 11-21-59
Company Tennessee Oil & Gas Company Lease Marquis G. Eaton Gas Unit "A" Well No. 1
Unit P Sec. 25 Twp. 34N Rge. 11W Purchaser _____
Casing 4 1/2 Wt. _____ I.D. _____ Set at 6441 Perf. 6173 To 6336
Tubing _____ Wt. _____ I.D. _____ Set at 6106 Perf. _____ To _____
Gas Pay: From _____ To _____ L _____ xG .700 -GL _____ Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer No Reservoir Temp. 178°

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	2"	3/4	390		57	390	57	851	57	3
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.	12.2023		402	1.0029	.9258	1.052	4,791.4
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons None Produced deg.
P_c _____ (1-e^{-s})

Specific Gravity Separator Gas .700
Specific Gravity Flowing Fluid _____
P_c 1540 P_c 2,371.6

No.	P _w P _t (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.	863					744.8	1,626.8		56.0
2.									
3.									
4.									
5.									

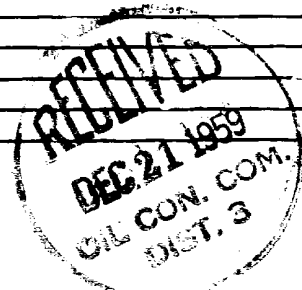
Absolute Potential: 6,350 MCFPD; n .75COMPANY Unitex Engineering Service, Inc.ADDRESS P. O. Box 4456 - Midland, Texas

AGENT and TITLE _____

WITNESSED _____

COMPANY _____

REMARKS _____



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

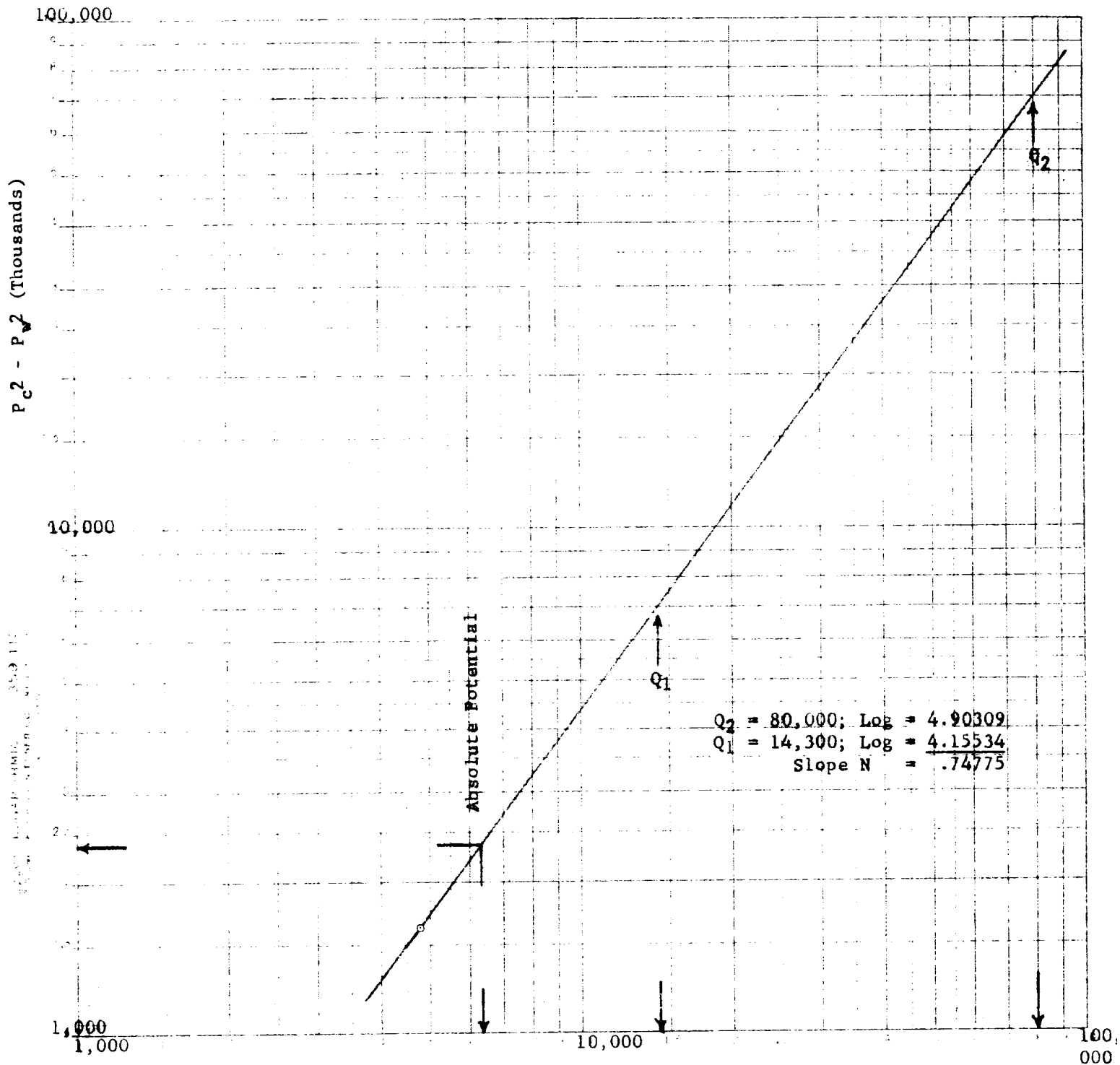
- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing 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} = Supercompressability 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 .

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COMPANY Tennessee Oil & Gas Company
 WELL Marquis G. Eaton Gas Unit "A" No. 1
 COUNTY San Juan, New Mexico
 DATE 11-21-59



OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE