

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 7-14-65
Company Continental Oil Company Lease AXI Apache "J" Well No. 10
Unit A Sec. 5 Twp. 25N Rge. 5W Purchaser Southern Union Gas Company
Casing 4 1/2" Wt. 10.5 I.D. 1.995" Set at 3746' Perf. 2769' To 2790'
Tubing 1" Wt. 1.724 I.D. 1.049" Set at 2775' Perf. Open End To _____
Gas Pay: From 2769' To 2790' L 2775' xG .670 -GL 1942 Bar.Press. 12 psia
Producing Thru: Casing X Tubing _____ Type Well G G Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: July 6, 1965 Packer Model D Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (XXXXXX) (XXXXXX)

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.	
SI						700		700		81 144 hrs.
1.	2"	1/4	670		61	672		670		1 hr.
2.	2"	3/8	607		61	620		607		1 hr.
3.	2"	5/8	442		63	486		442		1 hr.
4.	2"	7/8	289		64	353		269		1 hr.
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	1.4030		682	0.9990	.9463	1.076	973
2.	3.0691		619	0.9990	.9463	1.072	1925
3.	8.3533		454	0.9971	.9463	1.051	3762
4.	16.7816		281	0.9962	.9463	1.029	4575
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio dry gas cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c P_w measured (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid .670
P_c 712 P_c² 506,994

No.	P _w	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.	684					467,856	39,138		96.1
2.	632					399,424	107,570		88.7
3.	498					248,004	258,990		70.0
4.	365					133,225	373,769		51.3
5.									

Absolute Potential: 5630 MCFPD; n .69COMPANY Continental Oil CompanyADDRESS P. O. Box 3312, Durango, ColoradoAGENT and TITLE E. B. Everett, Test EngineerWITNESSED Paul Van MatreCOMPANY Continental Oil Company

REMARKS

NMCCC(3) File



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.

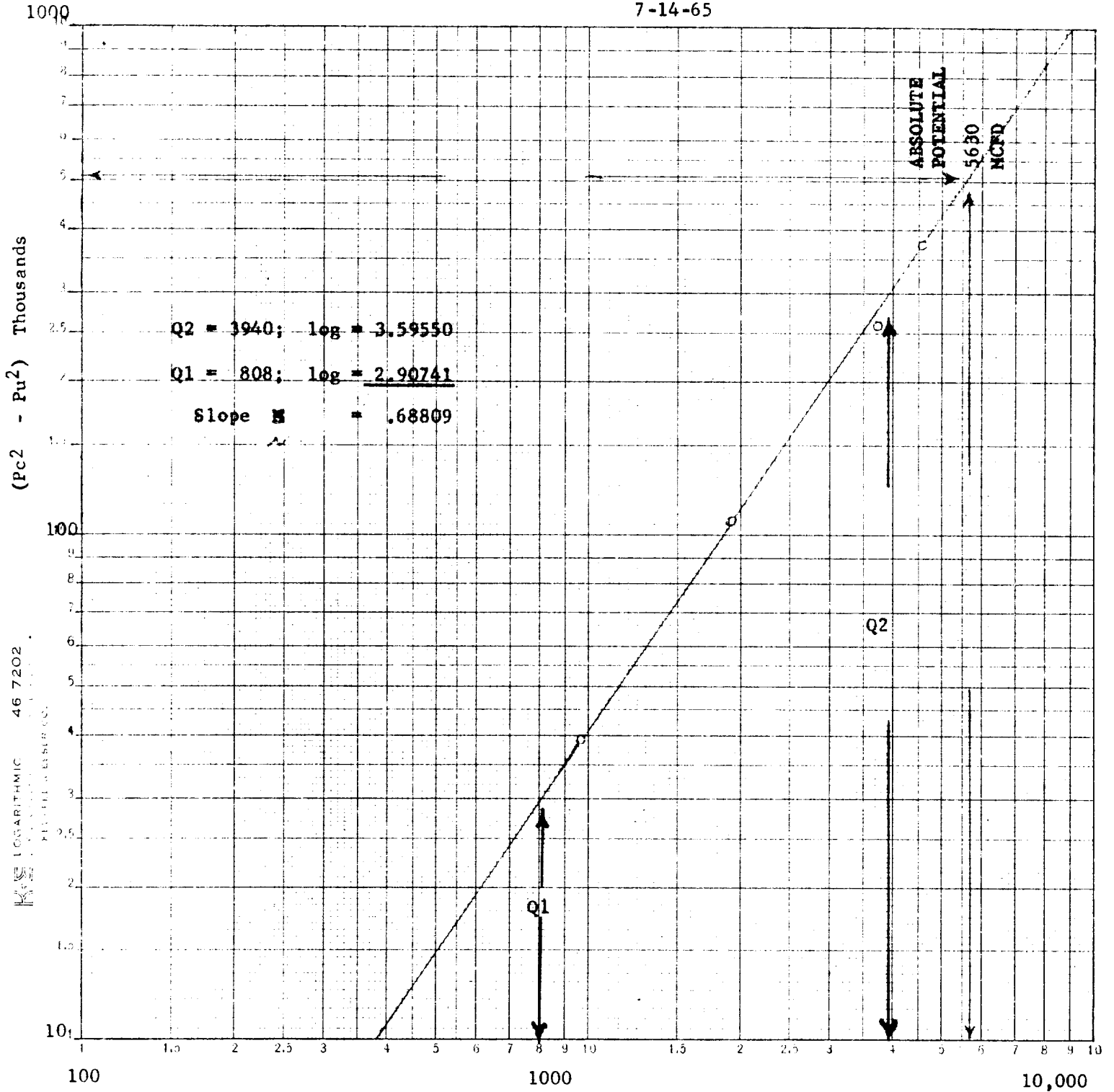
n = Slope of back pressure curve.

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 .

PICTURED CLIFFS

CONTINENTAL OIL COMPANY
AXI APACHE "J" NO. 10

A - 5 1- 25N - 5W
RIO ARRIBA COUNTY
7-14-65



Q - MCFD - 15,025 PSIA