

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Alenco Area Formation Permian County El Paso
Initial Test Annual _____ Special _____ Date of Test 7-3-62
Company Quilino Oil Company Lease 1000 Well No. 100
Unit _____ Sec. 4 Twp. 40N Rge. 5E Purchaser Quilino Oil Company
Casing 15.0 Wt. 17.0 I.D. 4.000 Set at 1223 Perf. 1212 To 1223
Tubing 1.5 Wt. 2.7 I.D. 1.3 Set at 1213 Perf. 1213 To 1213
Gas Pay: From 485 To 127 L 113 xG 1 -GL 113 Bar.Press. 12
Producing Thru: Casing no Tubing yes Type Well Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 6-26-62 Packer yes Reservoir Temp. 117

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.	
SI										
1.		3/4"	127			127		127		7.00
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.	14.1805		127	1.00	1.00	1.00	1.00
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c _____ P_c _____

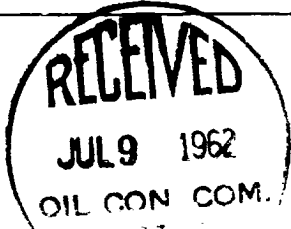
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w / P _c
1.									
2.									
3.									
4.									
5.									

Absolute Potential: 2400 MCFPD; n 1.00
COMPANY Quilino Oil Company
ADDRESS Box 700, Amarillo, Texas
AGENT and TITLE Frank J. Smith
WITNESSED _____
COMPANY _____

REMARKS

- Casing pressure used for calculations

ILLEGIBLE



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 .