

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Elmore Formation Pictured Cliffs County Sio Arriba
Initial XX Annual _____ Special _____ Date of Test 8/14/60
Company Artes Oil and Gas Company Lease Arissona Jicarilla Well No. 1-2
Unit M Sec. 4 Twp. 26N Rge. 5W Purchaser Southern Union Gas Co.
Casing 2 7/8 Wt. 6.5 I.D. 2.441 Set at 3252 Perf. 3203 To 3236
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 3203 To 3236 L 3203 xG 0.65 -GL 2002 Bar.Press. 12
Producing Thru: Casing XX Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 8/17/60 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (Choke) (2002)

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								<u>2002</u>		<u>7 days</u>
1.		<u>0.750</u>						<u>2002</u>		<u>3 hrs.</u>
2.										
3.										
4.										
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.	<u>12.355</u>		<u>216</u>	<u>1.0000</u>	<u>0.9608</u>	<u>1.005</u>	<u>2639</u>
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_c² _____

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.	<u>216</u>	<u>46.656</u>	<u>14.610</u>	<u>213.452</u>	<u>29.883</u>	<u>46.656</u>	<u>951697</u>	<u>217</u>	
2.									
3.									
4.									
5.									

Absolute Potential: 2806 MCFPD; n 0.85COMPANY Artes Oil and Gas CompanyADDRESS Box 770, Farmington, New MexicoAGENT and TITLE ORIGINAL SIGNED BY L. M. STEVENS L. M. Stevens, Engineer

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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