

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool allard Formation Pictured Cliffs County Mo Arriba
Initial X Annual _____ Special _____ Date of Test 12-1-60
Company Arizona Explorations, Inc. Lease Jicarilla P Well No. 2
Unit P Sec. 13 Twp. 23 Rge. 5N Purchaser El Paso Natural Gas Co.
Casing 8 5/8 Wt. 2 I.D. _____ Set at 2310 Perf. 2270 To 2270
Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 2245 Perf. 2245 To _____
Gas Pay: From 2270 To 2250 L 2245 xG 0.65 -GL 1400 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer _____ Reservoir Temp. _____

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						700		700		SI
1.										
2.										
3.	2	3/4	115		52			334		3 hrs.
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.							
2.							
3.	12.375		121	1.007	0.702	1.015	1500
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 1.002 (1-e^{-s}) _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 72 P_c² 515.524

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.	131	17.161	14.550	212.40	22.512	87.616	427.908	-	1.205
4.									
5.									

Absolute Potential: 1000 MCFPD; n 0.05/1.267

COMPANY Arizona Explorations, Inc.

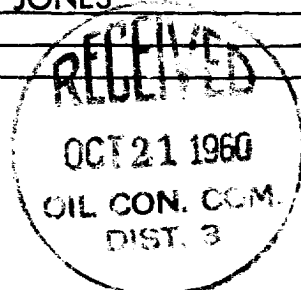
ADDRESS 41. S. 1st St., Gallup, N.M.

AGENT and TITLE Chris L. Jones, General Manager M. B. JONES

WITNESSED George J. Gault

COMPANY Arizona Explorations, Inc.

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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