

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Ballard Formation Pictured Cliffs County Rio Arriba SANDOVAL
Initial x Annual _____ Special _____ Date of Test 10-16-60
Company Arizona Exploration, Inc. Lease Jicarilla P Well No. 1
Unit E Sec. 19 Twp. 23N Rge. 4W Purchaser El Paso Natural Gas
Casing 5 1/2 Wt. 15.5 I.D. 4.95 Set at 2379 Perf. 2334 To 2318
Tubing 2 3/8 Wt. 4.7 I.D. 2.067 Set at 2326 Perf. open ended To _____
Gas Pay: From 2318 To 2334 L 2326 xG 0.65 -GL 1512 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) (Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.										
2.										
3.	<u>2</u>	<u>3/4</u>	<u>63</u>		<u>49</u>			<u>137</u>		<u>3 hrs.</u>
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.							
2.							
3.	<u>12.365</u>		<u>95</u>	<u>1.0107</u>	<u>0.9608</u>	<u>1.000</u>	<u>1139</u>
4.							
5.							

PRESSURE CALCULATIONS

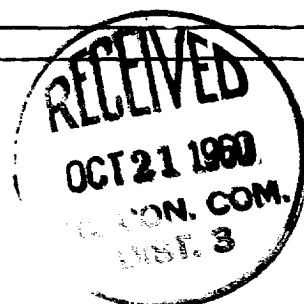
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) 0.104

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 725 P_c² 525,625

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.	<u>95</u>	<u>9.025</u>	<u>1.071</u>	<u>1.047</u>	<u>109</u>	<u>22.201</u>	<u>503.424</u>	<u>-</u>	<u>1.044</u>
4.									
5.									

Absolute Potential: 1139 MCFPD; n 0.85/1.0373COMPANY Arizona Explorations, Inc.ADDRESS 417 Meadows Building, Dallas 6, TexasAGENT and TITLE Morris B. Jones, Consulting Engineer M. B. JONESWITNESSED George G. Gifford, Jr.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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