

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Nakota County San Juan
Initial XX Annual _____ Special _____ Date of Test 1/11/59
Company Artesian Oil and Gas Company Lease Robinson Well No. 2
Unit 2 Sec. 22 Twp. 23N Rge. 13W Purchaser _____
Casing 7 Wt. 23 I.D. 5.156 Set at 6161 Perf. 6206 To 6120
Tubing 2.375 Wt. 1.7 I.D. 1.225 Set at 6334 Perf. _____ To _____
Gas Pay: From 6206 To 6120 L _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing XX Type Well Single as
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 1/11/59 Packer _____ Reservoir Temp. _____

Total Depth: 6162'PBM: 6130'PDB: 6095'

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.	
1.										
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.	<u>12.3540</u>		<u>132</u>	<u>1.0000</u>	<u>.9506</u>	<u>1.0140</u>	<u>9.359</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

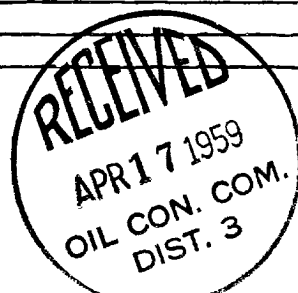
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s}) _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid .650
P_c 2074 P_c 4.30 1.76

No.	P _w P _w (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>1224</u>						<u>1,498,176</u>	<u>2,803,300</u>	
2.									
3.									
4.									
5.									

Absolute Potential: 7.386 MCFPD; n .75
COMPANY Artesian Oil and Gas Company
ADDRESS Box 736, Arapahoe, New Mexico
AGENT and TITLE W.C. Bryant, 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} = Supercompressibility 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 .

Oil and Gas Conservation Commission
Box 871, Santa Fe, N.M.
File No. _____

Transmitted to _____	_____	_____
File _____	_____	✓