

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverte County San Juan
Initial X Annual _____ Special _____ Date of Test 9-3-57
Company Antec Oil & Gas Company Lease Granier Well No. 6
Unit K Sec. 20 Twp. 31N Rge. 11W Purchaser Southern Union Gas Company
Casing 5 1/2" Wt. 14 1/2 I.D. 5.012 Set at 5100 Perf. 4700 To 4944
Tubing 2 3/8" Wt. 4.74 I.D. 1.995 Set at 9001 Perf. 4901 To 9001
Gas Pay: From 4700 To 4944 L 4901 xG 0.65 -GL 3030 Bar. Press. 12 psia
Producing Thru: Casing _____ Tubing X Type Well G.O. Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: August 9, 1957 Packer Baker Model B Reservoir Temp. _____
Date Well Shut-in For Test - August 20, 1957

OBSERVED DATA

Tested Through (Pressure) (Choke) (Restrictor) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>815</u>	<u>60</u>			<u>14 days</u>
1.		<u>0.730</u>				<u>101</u>	<u>60</u>			<u>3 hours</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>12.365</u>		<u>193</u>	<u>1.000</u>	<u>0.961</u>	<u>1.000</u>	<u>2339</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) 0.210
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 807 P_c² 683949

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>193</u>	<u>37.249</u>	<u>21.991</u>	<u>483.605</u>	<u>101.557</u>	<u>138.806</u>	<u>545.183</u>	<u>372.6</u>	
2.									
3.									
4.									
5.									

Absolute Potential: 8773 MCFPD; n 0.75
COMPANY ANTEC OIL & GAS COMPANY
ADDRESS 20 Box 786, Farmington, New Mexico
AGENT and TITLE ORIGINAL SIGNED BY L. M. STEVENS, District 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 CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		3
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	1	
Proration Office		
State Land Office		
U. S. G. S.	1	
Transporter		
File	1	<input checked="" type="checkbox"/>