

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San JuanInitial X Annual _____ Special _____ Date of Test 6-12-63Company PAN AMERICAN PETROLEUM CORPORATION Lease Jicarilla Apache 102 Well No. 7Unit 0 Sec. 3 Twp. 24N Rge. 4W Purchaser _____Casing 7-5/8 Wt. 240 I.D. 7.025 Set at 3950 Perf. 8100 To 8122Tubing 2-3/8 Wt. 4.70 I.D. 1.993 Set at 8050 Perf. - To -Gas Pay: From 8100 To 8122 L 8111 xG 700 est. -GL 3678 Bar.Press. 12Producing Thru: Casing _____ Tubing X Type Well Single

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 5-11-63 Packer None Reservoir Temp. _____44-1/2" 10.30 liner set @ 3871-8192 OBSERVED DATATested Through (Pressure) (Choke) (Meter) Type Taps Flange

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Pressure) (Line) Size	(Choke) (Pressure) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>32 days</u>					<u>2416</u>		<u>2427</u>		<u>32 days</u>
1.	<u>1 days</u>	<u>.730</u>	<u>197</u>			<u>242</u>	<u>450 est.</u>	<u>639</u>		<u>3 hours</u>
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>12.3630</u>		<u>205</u>	<u>1.0000</u>	<u>.9230</u>	<u>1.025</u>	<u>2412</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e⁻⁸)Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c _____ P_c _____

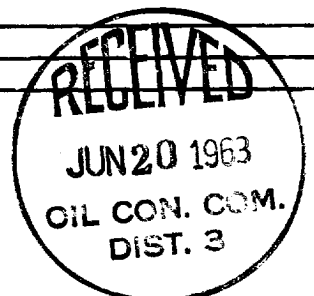
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						<u>423.801</u>	<u>5.124.920</u>		<u>1.0767</u>
2.									
3.									
4.									
5.									

Absolute Potential: 2392 MCFPD; n 0.75COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 400, Farmington, New MexicoAGENT and TITLE F. W. Foell, Petroleum 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 .