

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 Juan
Initial I Annual _____ Special _____ Date of Test 2-5-62
Company Pan American Petroleum Corp. Lease Hare Gas Unit "B" Well No. 1
Unit G Sec. 23 Twp. 29N Rge. 11W Purchaser _____
Casing 4 1/2 Wt. 10.54 I.D. 4.052 Set at 6200 Perf. 6216 To 6230
Tubing 2 3/8 Wt. 4.78 I.D. 1.995 Set at 6200 Perf. open ended To _____
Gas Pay: From 6216 To 6230 L 6225 xG .70 (EST.) GL 4350 Bar. Press. 12
Producing Thru: Casing _____ Tubing I Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 1-28-62 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through 2000000 (Choke) 2000000 Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	7 Days	Start-In				2052		2053		
1.		1/4"	205		60 EST.	30	60 EST.	771	60 EST.	3 hrs.
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.	12.360		215	1.0000	.9250	1.000	2525
2.							
3.							
4.							
5.							

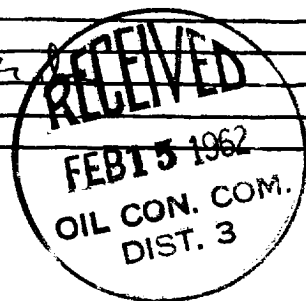
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2065 P_c² 4,264,225

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.	783					613,089	1,651,136		
2.									
3.									
4.									
5.									

Absolute Potential: 2837 MCFPD; n .75
COMPANY Pan American Petroleum Corporation
ADDRESS Box 480, Farmington, New Mexico
AGENT and TITLE R. M. Bauer, Jr., Senior Petroleum Engineer *RMB*
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 .