

C O R R E C T E D C O P Y

Form C-122

MULTI-POINT BACK (REG-100) TEST FOR GAS WELLS

Revised 12-1-55

Pool Fowler Formation Paddock County Lea

Initial X Annual Special Date of Test 11-16-60

Company Pan American Petroleum Corp. Lease South Mattix Unit Well No. 11

Unit H Sec. 22 Twp. 24 Rge. 37 Purchased None

Casing 5-1/2" Wt. 15.5 I.D. 4.950 Set at 7960 Perf. 4810 To 4835

Tubing 2" Wt. 4.7 I.D. 1.995 Set at 4807 Perf. To

Gas Pay: From 4810 To 4835 L 4807 Assumed 0.700 3365 Bar.Press. 13.2

Producing Thru: Casing Tubing X Type Well Single

Date of Completion: 11-14-60 Packer 4780 Reservoir Temp.

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

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.	
SI						1650				
1.	2.000	1.500	71		60	715				2.75
2.	2.000	1.500	24.5		46	410				2
3.	2.000	1.500	26		46	260				2
4.	2.000	1.500	26		48	240				2
5.	2.000	1.500	25		65	230				20

FLOW CALCULATION

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor	Gravity Factor	Compress. Factor	Rate of Flow Q-MCFPD @ 15.025 psia
1.	22.0662 ✓		84.2	1.000	0.9258 ✓	-	1720* ✓
2.	54.3653 ✓		37.7	1.0137	0.9258	-	1923 ✓
3.	54.3653		39.2	1.0137	0.9258	-	2000 ✓
4.	54.3653		39.2	1.0117	0.9258	-	1996 ✓
5.	54.3653		38.2	0.9952	0.9258	-	1913 ✓

PRESSURE CALCULATION

Gas Liquid Hydrocarbon Ratio Dry 0.01/100 Specific Gravity Separator Gas

Gravity of Liquid Hydrocarbons 9.936 (1.0) 0.207 Specific Gravity Flowing Fluid

1663.2 p_c² 2766.2

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	728.2	530.3	17.09	292.1	60.46	590.8	2175.4
2.	423.2	179.1	19.11	365.2	75.60	254.7	2511.5
3.	273.2	74.6	19.87	394.8	81.72	156.3	2609.9
4.	253.2	64.1	19.83	393.2	81.39	145.5	2620.7
5.	243.2	59.1	19.00	361.0	74.73	133.8	2632.4

Absolute Potential: 2.070 NOPE 0.785

COMPANY Pan American Petroleum Corporation

ADDRESS P. O. Box 68 - Hobbs, New Mexico

AGENT and TITLE J. W. Meek Area Engineer

WITNESSED

COMPANY

* Due to freezing conditions encountered at the wellhead, lower flow rates could not be obtained.

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 .