

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 2-25-59
Company Pan American Petroleum Corp. Lease Gallegos Canyon Unit Well No. 83
Unit A Sec. 26 Twp. 28N Rge. 12W Purchaser Kl. Pace Natural Gas Company
Casing 7" Wt. 28 I.D. 6.426 Set at 6343 Perf. 6200 To 6294
Tubing 2-3/8 Wt. 4.7 I.D. 1.975 Set at 6206 Perf. 6200 To 6206
Gas Pay: From 6200 To 6294 L 6200 x G 0.70 (est) -GL 4340 Bar. Press. 12
Producing Thru: Casing _____ Tubing X Type Well Dual - gas & oil
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 2-10-59 Packer 6110 Reservoir Temp. 132°F

OBSERVED DATA

Tested Through (28000) (Choke) (28000) 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.	
1.	2"	3/4"	113		60° (est)	198	60° (est)	—	—	3 hours
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.	12.365		123	1.000	0.9838	1.013	1432
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) 0.272
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2067 P_c 4,272.489

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.	202	40804	23.632	106.577	90.908	91.312	4,101,177	302	
2.									
3.									
4.									
5.									

Absolute Potential: 1476 MCFPD; n 0.75
COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 487, Farmington, New Mexico
AGENT and TITLE H. M. Bower, Jr., Field 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} = 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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. CO-152	DATE	PAGE
WELL INFORMATION		
Operator		
Santa Fe	/	
Proration Office		
State Land Office		
Geologist	/	
Transporter		
File	/	✓