

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 _____

Company Pan American Petroleum Corp. Lease O. H. Randal "B" Well No. 1

Unit N Sec. 10 Twp. 26N Rge. 11W Purchaser - -

Casing 7" Wt. 23 I.D. 6.456 Set at 6447 Perf. 6250 To 6400

Tubing 2-3/8" Wt. 4.7 I.D. 1.995 Set at 6282 Perf. 6276 To 6282

Gas Pay: From 6250 To 6400 L 6276 xG 0.70 (est) GL 4393 Bar.Press. 12

Producing Thru: Casing _____ Tubing X Type Well Dual - Gas & Oil

Date of Completion: 2-13-59 Packer 6184 Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. 175°

OBSERVED DATA

Tested Through (NONE) (Choke) (NONE) 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.	
1.	Shut in 11 days	3/4"	120		600 (est)	1750	600 (est)	-	-	3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wDf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.355		132	1.000	0.9258	1.016	1535
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c 9.402 (1-e^{-s}) 0.273

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 1771 P_c² 3,136,441

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.	172	29,584	14.432	208,293	56,661	29,443	1,049,996		
2.									
3.									
4.									
5.									

Absolute Potential: 1967 MCFPD; n 0.75

COMPANY PAN AMERICAN PETROLEUM CORPORATION

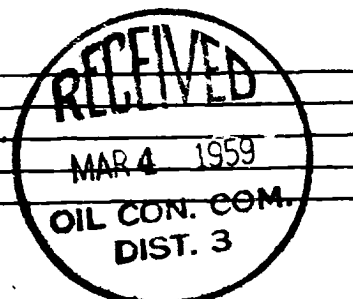
ADDRESS BOX 457, Farmington, New Mexico

AGENT and TITLE E. H. BERRY, 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} = 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 .

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