

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Mesa Verde Formation Mesa Verde County San Juan

Initial X Annual _____ Special _____ Date of Test 1-31-58

Company The Texas Company Lease State of New Mexico Well No. 1

Unit A Sec. 36 Twp. 30N Rge. 10W Purchaser El Paso Natural Gas Co.

Casing 7" 20# 2565

Casing 4 1/8" Wt. 9.5# I.D. 4" Set at 2515-4827 Perf. 4053 To 4786

Tubing 2 3/8" Wt. 4.7# I.D. 2" Set at 24735 Perf. 4729 To 4735

Gas Pay: From 4053 To 4786 L _____ xG _____ -GL _____ Bar.Press. _____

Producing Thru: Casing _____ Tubing X Type Well Single-Gas.

Date of Completion: 1-22-58 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Proven) (Choke) (Wellbore) 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.	
SI								
1.		<u>3/4"</u>	<u>312</u>		<u>58</u>	<u>312</u>	<u>58</u>	<u>7 Day shutin.</u>
2.								<u>3 Hours.</u>
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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>12.365</u>		<u>324</u>	<u>1.0019</u>	<u>.9325</u>	<u>1.036</u>	<u>3,878</u>
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 1002 P_c² 1004004

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.						<u>514089</u>	<u>489915</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 6,641 MCFPD; n .75

COMPANY Well Production Company

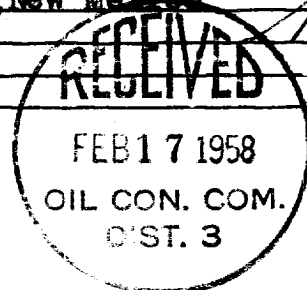
ADDRESS 1041 Zuni Drive Farmington, New Mexico

AGENT and TITLE N. A. Neely Owner

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 .

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