

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 11-11-57
Company Texas National Petroleum Co. Lease Rincon Well No. 57
Unit A Sec. 1 Twp. 26N Rge. 7W Purchaser El Paso Natural Gas Co.
Casing 7" Wt. 26# I.D. 7" Set at 7374 Perf. 7192 To 7234
Tubing 2 3/8" Wt. 4.7# I.D. 2" Set at 7350 Perf. _____ To _____
Gas Pay: From 7192 To 7361 L. _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11-2-55 Packer _____ Reservoir Temp. _____

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.	
SI								
1.		<u>3/4"</u>	<u>166</u>		<u>60</u>	<u>2260</u>	<u>2288</u>	<u>7 Day Shut in.</u>
2.						<u>166</u>	<u>60</u>	<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>166</u>	<u>1.000</u>	<u>.9721</u>	<u>1.010</u>	<u>2,161</u>
2.							
3.							
4.							
5.							

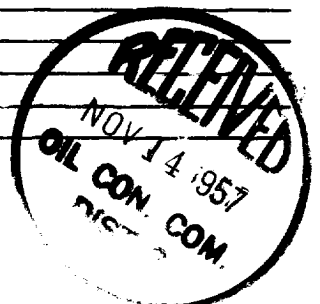
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2288 P_c² 5,234.94

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>285.2</u>	<u>4949.74</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 2,242 MCFPD; n .75
COMPANY Well Production Co.
ADDRESS 1041 Zuni Drive Farmington, New Mexico
AGENT and TITLE Owner
WITNESSED Dave Johnson
COMPANY Texas National Petroleum Co.

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_{flow} .

ft

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE

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