

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 Sad Juan
Initial XX Annual _____ Special _____ Date of Test 2-24-62
Company R & G Drilling Company Lease Lunt Well No. 64
Unit M Sec. 5 Twp. 30 Rge. 13 Purchaser Southern Union Gas Co.
Casing 4 1/2" Wt. 11.6 I.D. _____ Set at 6232 Perf. 6014 To 6170
Tubing 2 3/8" 4.7 I.D. 2" Set at 6160 Perf. 6145 To _____
Gas Pay: From 6014 To 6170 L _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing XX Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer No no Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

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.		<u>.750</u>	<u>2024</u>			<u>2024</u>		<u>2024</u>		
2.						<u>384</u>		<u>1007</u>		
3.						<u>324</u>		<u>943</u>		
4.						<u>273</u>	<u>80</u>	<u>878</u>		<u>3 Ho urs</u>
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.	<u>12.365</u>		<u>285</u>	<u>.9813</u>	<u>1.00</u>	<u>1.025</u>	<u>3540</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 _____ P_c² _____

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.									
2.						<u>770.0</u>	<u>3330.0</u>		
3.									
4.									
5.									

Absolute Potential: 4140 MCFPD; n .75

COMPANY

ADDRESS R & G Drilling Co.AGENT and TIME Box 327 - Farmington, N.M.WITNESSED Production Equipment Corp. - Bill R. Hastings

COMPANY

REMARKS

PRODUCTION EQUIPMENT CORP.
P.O. Box 1581
206 Petroleum Club Plaza
Farmington, New Mexico

RECEIVED

FEB 27 1962

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 .