NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool West Kutz Formation Picture Cliff County San Juan

Initial X Annual ____ Special ____ Date of Test 6-28-60

Company Ted White Lease ~~Eaton~~ White Well No. 77

Unit C Sec. 20 Twp. 29N Rge. 13W Purchaser Southern Union Gas Co.

Casing 5½ Wt. 15.5 I.D. 5.000 Set at 1090 Perf. Open Hole. To ____

Tubing 1.315 Wt. 1.68 I.D. 1.000 Set at 1114 Perf. Open ended. To ____

Gas Pay: From 1090 To 1117 L ____ xG ____ -GL ____ Bar.Press. ____

Producing Thru: Casing X Tubing ____ Type Well Gas.
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 6-20-60 Packer ____ Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps ____

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						320		323		7 Days.
1.		.750	98		68	103		98		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		110	.9924	~~1.030~~ 1.030	1.013	1,408
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____
P_c ____ $(1-e^{-s})$ ____ P_c 335 P_c^2 112225

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.						13225	99000		
2.									
3.									
4.									
5.									

Absolute Potential: 1,567 MCFPD; n .85
COMPANY ____
ADDRESS Well Production Company 1041 Zuni Drive Farmington, New Mexico
AGENT and TITLE N.A.Neely Tester
WITNESSED ____
COMPANY ____

REMARKS

(1.1336)·85 1.1127

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.