NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Wildcat__ Formation __Dakota__ County __San Juan__

Initial __X__ Annual_____ Special_____ Date of Test __10-8-59__

Company __Kay-Kimbell__ *E. P. Campbell* Lease __Hanson__ Well No. __1__

Unit __A__ Sec. __5__ Twp. __25N__ Rge. __10W__ Purchaser __El Paso Natural Gas Co.__

Casing __5½__ Wt. __15.5__ I.D. __5.000__ Set at __6502__ Perf. __6372__ To __6448__

Tubing __2 3/8"__ Wt. __4.7__ I.D. __2.000__ Set at __6436__ Perf. __Opened Ended.__ To _____

Gas Pay: From __6372__ To __6448__ L _____ xG _____ ̅GL _____ Bar.Press. _____

Producing Thru: Casing _____ Tubing __X__ Type Well __Single-Gas.__
Single-Bradenhead-C.C. or C.O. Dual

Date of Completion: __10-8-59__ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI										
1.						1625		1650		7 Days.
2.		.750	185		72	185		505		3 Hours.
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		197	.9887	1.008	1.018	2,471
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 _____
F_c _____ $(1-e^{-s})$ P_c __1662__ P_c^2 __2762244__

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	$\frac{P_w}{P_c}$
1.									
2.					267289	2494955			
3.									
4.									
5.									

Absolute Potential: __2,669__ MCFPD; n __.75__

COMPANY __Well Production Co.__
ADDRESS __1041 Zuni Drive Farmington, New Mexico__
AGENT and TITLE __N.A. Neely   Agent & Tester.__
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.