Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Jalmat__   Formation __Yates__   County __Lea__

Initial __X__   Annual_____ Special_____ Date of Test __6-1/6-10 1957__

Company __El Paso Natural Gas Company__   Lease __Prichard__   Well No. __1-A__

Unit __6__ Sec. __9__ Twp. __25__ Rge. __37__ Purchaser __El Paso Natural Gas Company__

Casing __5 1/2"__ Wt. __15.5__ I.D._____ Set at __3169__ Perf._____ To_____

Tubing __2"__ Wt. __4.7__ I.D._____ Set at __3112__ Perf._____ To_____

Gas Pay: From __1962__ To __3169__ L_____ xG __0.650 Assumed__ -GL_____ Bar.Press. __13.2__

Producing Thru: Casing_____ Tubing __X__ Type Well __Single__

Date of Completion: __6-10-1957__ Packer __None__   Single-Bradenhead-G. G. or G.O. Dual   Reservoir Temp._____

OBSERVED DATA

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

No.	(Prover) (Line) Size	(Choke) (Orifice) 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						665/669/670		672/675/677		24/24/72
1.	4	1.000	704	10.47	68	572		665		2
2.	4	1.000	657	45.00	73	572		647		2
3.	4	1.000	593	30.44	76	573		611		2
4.	4	1.000	549	64.00	77	561		618		2
5.										

FLOW CALCULATIONS

No.	Coefficient (Flange) (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.	6.135	77.03		.9924	.9608	1.095	615
2.	6.135	174.44		.9877	.9608	1.054	714
3.	6.135	147.90		.9850	.9608	1.050	905
4.	6.135	186.45		.9840	.9608	1.053	1.115
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio __32,000__ cf/bbl.

Gravity of Liquid Hydrocarbons __57.4__ deg.

F_c __Assumed__ $(1-e^{-s})$_____

Specific Gravity Separator Gas_____

Specific Gravity Flowing Fluid_____

P_c __670.2__ P_c^2 __476.4__

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.	685.2					311.4	31.3		.7
2.	680.7					425.4	51.2		.7
3.	661.9					414.0	61.4		.85
4.	651.2					378.4	78.0		.80
5.									

Absolute Potential: __4,900__ MCFPD; n __1.000__

COMPANY __El Paso Natural Gas Company__

ADDRESS __P. O. Box 1386, Jal, New Mexico__

AGENT and TITLE _R. T. Wright_ __R. T. Wright Petroleum Engineer__

WITNESSED __Mark G. Smith__

COMPANY __El Paso Natural Gas 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.