Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Pool __Jalmat__ Formation __Yates__ County __Lea__

Initial_____ Annual_____ Special __x__ Date of Test __10-22 to 10-26-56__

Company __Shell Oil Company__ Lease __Christmas B__ Well No. __1__

Unit __L__ Sec. __25__ Twp. __22 S__ Rge. __36 E__ Purchaser __El Paso Natural Gas Co.__

Casing __4 1/2__ Wt. __16.25__ I.D._____ Set at __3005__ Perf._____

Tubing __2 3/8__ Wt. __4.7__ I.D._____ Set at __3499__ Perf._____

Gas Pay: From __3080__ To __3500__ L __3491__ xG __.660__ Press. __13.2__

Producing Thru: Casing_____ Tubing __x__ Type Well __Single__ Single Zone or C.C. Dual

Date of Completion: __4-21-51__ Packer __None__

OBSERVED DATA

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

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. $^\circ F.$	Tubing Data Press. psig	Temp. $^\circ F.$	Casing Data Press. psig	Temp. $^\circ F.$	Duration of Flow Hr.
SI						865		865		72
1.	4	1.250	820	4.8^2	76	820		843		24
2.	4	1.250	780	6.1^2	75	783		830		24
3.	4	1.250	740	7.75^2	72	743		820		24
4.	4	1.250	702	9.2^2	71	707		811		24
5.										

FLOW CALCULATIONS

No.	Coefficient Flg (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.	9.643	121-22		.9850	.9535	1.084	1,189
2.	9.643	171-78		.9859	.9535	1.077	1,677
3.	9.643	212-67		.9887	.9535	1.075	2,079
4.	9.643	246-00		.9896	.9535	1.072	2,399
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^2 __878.2__ P_s^2 __771.2__

No.	P_{tf} Pt (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-s})$	P_w^2		Cal.	$\frac{P_w}{F_c}$
1.	833.2	694.2				733.1	38.1		104
2.	796.2	633.9				711.0	60.2		96
3.	756.2	571.8				694.2	77.0		87.7
4.	720.2	518.7				679.3	91.9		93.8
5.									

Absolute Potential: __15,500__ MCFPD; n __.87__

COMPANY __Shell Oil Company__

ADDRESS __Box 845, Roswell, New Mexico__

AGENT and TITLE __R. C. Cabaniss, District Exploitation Engineer__

WITNESSED __Earl G. Smith__

COMPANY __El Paso Natural Gas 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_t.