000 Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS   10 : 06   Revised 12-1-55

Pool ___Eumont___   Formation ___Queen___   County ___Lea___

Initial __X__ Annual _____ Special _____   Date of Test __9/6 - 13/57__

Company __Continental Oil Company__ Lease __Meyer B-17__   Well No. __1__

Unit __I__ Sec. __17__ Twp. __21S__ Rge. __36E__ Purchaser __E. P. N. G.__

Casing __5 1/2__ Wt. __17__ I.D. _____ Set at __3766__ Perf. __3150__ To __3682__

Tubing __2 1/2__ Wt. __6.5__ I.D. _____ Set at __3903__ Perf. _____ To _____

Gas Pay: From __3150__ To __3682__ L __3150__ xG __.665__ -GL __2095__ Bar.Press. __13.2__

Producing Thru: Casing __X__ Tubing _____   Type Well __G. O. Dual__
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: __9-5-56__ Packer __3717__ Reservoir Temp. __90°__

OBSERVED DATA

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

No.	Flow Data (Line) Size	(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								995		72
1.	4	1.250	555	23.04	60			703		24
2.	4	1.250	527	38.44	62			730		24
3.	4	1.250	508	64.00	59			693		24
4.	4	1.250	545	75.69	64			685		24
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.	9.643	114.40		1.0000	.9498	1.062	1113
2.	9.643	144.08		.9981	"	1.059	1394
3.	9.643	182.60		1.0010	"	1.057	1769
4.	9.643	205.51		.9962	"	1.059	1986
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.   Specific Gravity Separator Gas _____
Gravity of Liquid Hydrocarbons _____ deg.   Specific Gravity Flowing Fluid _____
F_c __2.507__ $(1-e^{-s})$ __0.134__ P_c __1011.2__ P_c^2 __1022.5__

No.	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.	796.2	633.9	2.79	7.78	1.04	634.9	387.6	796.8	.79
2.	742.2	550.9	3.49	12.18	1.63	552.5	470.0	743.3	.74
3.	706.2	498.7	4.43	19.62	2.63	501.3	521.2	708.0	.70
4.	698.2	487.5	4.98	24.80	3.32	490.8	532.7	700.6	.69
5.									

Absolute Potential: __3,825__ MCFPD; n __1.000 *__

COMPANY ___Continental Oil Company___

ADDRESS ___Box 427, Hobbs, New Mexico___

AGENT and TITLE _____

WITNESSED _____

COMPANY _____

REMARKS

* **Second test on subject well. Since slope was greater than 1.000 a slope of 1.000 was
drawn thru highest data point.**

NMOCC-3 MMW HLJ RLA FTE EVB WDH
Attach.

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.