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.

RECEIVED
NEW MEXICO OIL CONSERVATION COMMISSION
MAY 1 MAIN OFFICE OCC HOBBS OFFICE OCC
Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Penn. Atpka Sd. County Eddy

Initial X Annual Special Date of Test

Company STANDARD OIL COMPANY OF TEXAS Lease J. H. Everest Well No. 1

Unit L Sec. 14 Twp. 18S Rge. 26E Purchaser Will report later

Casing 7" Wt. 29# I.D. 6.123" Set at 9370 Perf. 9079 To 9116

Tubing 2-3/8" OD Wt. 4.7# I.D. 1.995 Set at Packer @ 9050 Perf. 9085 To

Gas Pay: From 9079 To 9116 L 9079 xG .561 -GL 5099.7 Bar.Press. 13.2

Producing Thru: Casing Tubing ✓ Type Well Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 9-2157 Packer Baker "D" 9050 Reservoir Temp. 158 deg. F

OBSERVED DATA

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

No.	Flow Data (~~Prover~~) (Line) Size	Flow Data (~~Choke~~) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. Psig ~~KKK~~	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI	3"	2"				2883	83			72 hr S.I.
1.	"	"	708	8	60	2843	84			24
2.	"	"	717	16.5	89	2792	83			3
3.	"	"	720	28.25	85	2718	84			2
4.	"	"	725	57.5	79	2523	83			2
5.	"	"	720	19	80	2770	83			20

24 hr

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.	27.52	75.92	721.2	.9777	1.0635	1.03	2235
2.	"	109.7	730.2	"	"	"	3225
3.	"	143.9	733.2	"	"	"	4225
4.	"	206.0	738.2	"	"	"	6050
5.	"	118.0	733.2	"	"	"	4372

24 hr.

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 90,840 cf/bbl.
Gravity of Liquid Hydrocarbons 55.8 deg.
F_c 9.936 $(1-e^{-s})$ .296

Specific Gravity Separator Gas .5305
Specific Gravity Flowing Fluid .5617
P_c 2883 P_c^2 8,312,000

No.	P_w P_t (psia)	P_t^2 x 10^3	F_cQ x 10^3	$(F_cQ)^2$ x 10^6	$(F_cQ)^2$ $(1-e^{-s})$	P_w^2 x 10^3	$P_c^2-P_w^2$ x 10^3	Cal. P_w	$\frac{P_w}{P_c}$
1.	2843	8083	22.2	493	146	8229	83	2869	.995