

MULTI-POLE

Pool Furmont Formation Queen 45 45
 Initial X Annual 9-21-56
 Company Gulf Oil Corporation A. P. Leves Well No. 1
 Unit 1 Sec. 29 Twp. 20 R. 37 Permian Basin Co.
 Casing 5 1/2" Wt. 17 1/2 I.D. 4.892" 3660' 3352' 3535'
 Tubing 2-3/8" Wt. 4.7 1/2 I.D. 1.975" Set at 3547' To 3535'
 Gas Pay: From 3352' To 3535' L 352.7 G 0.670 2376 Bar. Press. 13.2
 Producing Thru: Casing X tubing X Type Well Single Completion
 Date of Completion: 4-29-55 Water: No Oil Head-G. G. or G.O. Dual Repair Temp.

OBSERVED DATA

Tested Through (Pressure) (Shut-in) (Meter) Type Valve Pipe

Flow Data						Casing Data		Duration of Flow Hr.
No.	(Line) Size	(Orifice) Size	Press. psig	Diff. in. H ₂ O	Temp. °F.	Press. psig	Temp. °F.	
SI								
1.	1	2.00	460.8	3.8	75	945.4	945.5	72 1/2
2.	1	2.00	463.9	9.5	58	888.4	896.6	23-3/4
3.	1	2.00	466.3	18.5	61	845.2	856.1	2 1/2
4.	1	2.00	462.0	36.5	61	719.5	799.0	2 1/2
5.					61	582.0	733.4	2 1/2

No.	Coefficient (24-Hour)	$\sqrt{\frac{Q}{C}}$ in. H ₂ O	Press. psia	Factor	Factor	Factor	Rate of Flow Q-MCFPD @ 15.025 psia
1.	29.92	42.44	470.0	0.9859	0.9863	1.043	1236
2.	29.92	67.32	477.1	1.0019	0.9863	1.051	2007
3.	29.92	96.19	479.5	0.9990	0.9863	1.049	2795
4.	29.92	120.60	475.2	0.9162	0.9863	1.049	3568
5.							

0.02 - 2.11%
 0.02 - 1.16%

Gas Liquid Hydrocarbon Ratio 9.936 0.151
 Gravity of Liquid Hydrocarbons 9.936 0.151
 Separator Gas 950.7 919.1

No.	P _w (psia)	P _g	P _g	P _g	Cal. P _w	P _w
1.	941.8			621.4	37.7	941.8
2.	889.6			756.2	162.9	889.6
3.	812.2			659.7	259.4	812.2
4.	746.6			557.4	362.7	746.6
5.						

Absolute Potential: 6980 0.72
 COMPANY Gulf Oil Corporation
 ADDRESS Box 2167, Hobbs, N.M.
 AGENT and TITLE
 WITNESSED
 COMPANY

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} = Supercompressibility 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 .