Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool **South Blanco - P.C.** Formation **Pictured Cliffs** County **Rio Arriba**

Initial **X** Annual _____ Special _____ Date of Test **October 9, 1962**

Company **Occidental Petroleum Corp.** Lease **W** Well No. **6-6**

Unit **D** Sec. **6** Twp. **26N** Rge. **5W** Purchaser _____

Casing **2 7/8"** Wt. **6.5#** I.D. _____ Set at **3271** Perf. **3111** To **3138**

Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____

Gas Pay: From **3111** To **3138** L **3111** xG **.60** _GL **1867** Bar.Press. _____

Producing Thru: Casing **X** Tubing _____ Type Well _____

Date of Completion: **9-22-62** Packer _____ Single-Bradenhead-G. G. or G.O. Dual

Reservoir Temp. **Single - Gas**

OBSERVED DATA

Tested Through ~~Prover~~ (Choke) ~~Orifice~~   Type Taps _____

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								1155		
1.										
2.		3/4"	296		64°					3 hrs.
3.										
4.										
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.							
2.							
3.	12.365		308	.9962	1.000	1.025	3889
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c **5.551** $(1-e^{-s})$ **.127**

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c **1167** P_c^2 **1361.889**

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.		•							
2.									
3.	308	94.864	21.588	466.033	59.186	154.050	1207.839		1.1275
4.									
5.									

Absolute Potential: **4306** MCFPD; n = **.85** **1.1073**

COMPANY **Occidental Petroleum Corp.**
ADDRESS **5000 Stockdale Highway, Bakersfield, California**
AGENT and TITLE Original signed by T. A. Dugan **Consulting Engineer**
WITNESSED _____
COMPANY _____

REMARKS
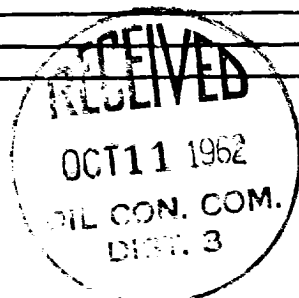
INSTRUCTIONS

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.