NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Basin__ Formation __Dakota__ County __San Juan__

Initial __X__ Annual _____ Special _____ Date of Test __10-22-61__

Company __International Oil Corp.__ Lease __Fogelson__ Well No. __1-8__

Unit __J__ Sec. __8__ Twp. __29N__ Rge. __11W__ Purchaser __Southern Union Gas Co.__

Casing __4-1/2__ Wt. __10.5__ I.D. _____ Set at __6650__ Perf. __6328__ To __6521__

Tubing __2-3/8__ Wt. __4.7__ I.D. _____ Set at __6505__ Perf. __6503__ To __6505__

Gas Pay: From __6327__ To __6521__ L _____ xG __0.680__ -GL _____ Bar.Press. _____

Producing Thru: Casing _____ Tubing __X__ Type Well __Single-Gas__

Date of Completion: __10-5-61__ Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

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

No.	(Prover)(Line)Size	(Choke)(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						2031		2109		
1.										
2.										
3.	2"	0.750	310		76			790		3 hrs.
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.	12.3650		322	0.9850	0.9393	1.033	3805
4.							
5.							

PRESSURE CALCULATIONS

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

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c __2121__ P_c^2 __4499__

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.									
3.	802					643	3856		1.1668
4.									
5.									

Absolute Potential: __4271__ MCFPD; n __.75__ __1.1225__

COMPANY __International Oil Corp.__
ADDRESS __1007 N. Dustin, Farmington, New Mexico__
AGENT and TITLE __Original signed by T. A. Dugan__ __Engineer__
WITNESSED _____
COMPANY _____

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REMARKS
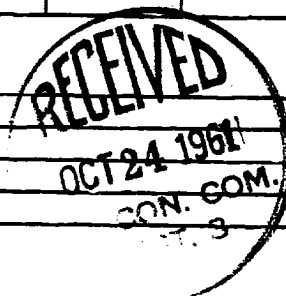
INSTRUCTIONS

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.