Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Undesignated Dakota__ Formation __Dakota__ County __San Juan__

Initial __X__ Annual_____ Special_____ Date of Test __9-18-60__

Company __Delhi-Taylor Oil Corporation__ Lease __Delhi-Florance__ Well No. __A-1__

Unit __SW/4__ Sec. __19__ Twp. __28-N__ Rge. __8-W__ Purchaser _____

Casing __5-1/2__ Wt. __17#__ I.D. __4.892__ Set at __6745__ Perf. 6670-60 6540-26 6340-75 To 6572-63 6500-6470

Tubing __2-3/8__ Wt. __4.7#__ I.D. __1.996__ Set at __6543__ Perf._____ To_____

Gas Pay: From __6500__ To __6670__ L_____ xG __0.697__ _GL_____ Bar.Press. __12__

Producing Thru: Casing_____ Tubing __X__ Type Well __Single gas__

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: __9-14-60__ Packer __None__ Reservoir Temp._____

OBSERVED DATA

Tested Through (Prover) (Choke) (Nozzle) Type Taps_____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1760		2191		7 Days
1.		3/4"			73°	56	72	415		3 hours
2.										
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.	12.385		76	0.9887	0.9292	1.055	870
2.							
3.							
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 __2302__ P_c^2 __4855300__

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.									
4.									
5.									

Absolute Potential: __896__ MCFPD; n __0.75__

COMPANY __Delhi-Taylor Oil Corporation__

ADDRESS __P. O. Drawer 1190, Farmington, New Mexico__

AGENT and TITLE __J. Berry - Dist. Engineer__ _J Berry by mae_

WITNESSED COMPANY __El Paso Natural Gas Company__

REMARKS

RECEIVED

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.