NEW MEXICO OIL CONSERVATION COMMISSION

File 5-556 OPP

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __BASIN DAKOTA__ Formation __DAKOTA__ County __SAN JUAN__

Initial __X__ Annual_____ Special_____ Date of Test __FEB. 23, 1962__

Company __TENNECO OIL COMPANY__ Lease __FOSTER__ Well No. __2__

Unit __D__ Sec. __16__ Twp. __26N__ Rge. __7W__ Purchaser_____

Casing __4.5__ Wt._____ I.D._____ Set at_____ Perf. __6526__ To __6628__

Tubing __2-3/8__ Wt._____ I.D. __2__ Set at __6521__ Perf._____ To_____

Gas Pay: From_____ To_____ L_____ xG __0.65__ GL_____ Bar.Press. __12.0__

Producing Thru: Casing_____ Tubing_____ Type Well __Single Gas__
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion:_____ Packer_____ Reservoir Temp._____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) X 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						3452		3448		
1.		3/4				166	70	485		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.	11.3650		178	0.9995	0.9658	1.018	2127
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 __2464__ P_c^2 __6071296__

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.	467					247009	5824287		
2.									
3.									
4.									
5.									

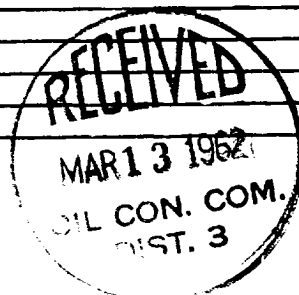Absolute Potential: __3194__ MCFPD; n __(1.0315) 0.75__

COMPANY_____
ADDRESS_____
AGENT and TITLE_____
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.