

1-EPNG-Bill Parrish

1-Tidewater, Durango

2-Tidewater, Midland

1-MW Prod.

1-Texas Natl.

1-Lion

1-D

1-E

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San JuanInitial X Annual _____ Special _____ Date of Test 12/20/61Company Southwest Production Company Lease Paul Palmer "D" Well No. 1Unit L Sec. 26 Twp. 30 Rge. 12 Purchaser El Paso Natural Gas CompanyCasing 4½ Wt. 10.5 I.D. 4.040 Set at 6562 Perf. 6318-46 To 6398-6461Tubing 1½ Wt. 2.75 I.D. 1.610 Set at 6443 Perf. Open To EndGas Pay: From 6318 To 6461 L 6443 xG .67 -GL 4310.1 Bar.Press. 12.0Producing Thru: Casing _____ Tubing X Type Well Single-Gas

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

Date of Completion: 11-27-61 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~2000~~) (Choke) (~~Water~~) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2078		2078		11 day
1.		3/4	201		68	201	68	860		3 hr.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		213	.9924	.9463	1.022	2,528
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 2090 P_c 4368.1P_w 872 P_{w2} 670.3

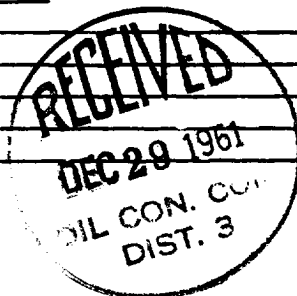
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						4368.1	3797.8		.417
2.									
3.									
4.									
5.									

Absolute Potential: 2,806 MCFPD; n .75COMPANY Southwest Production CompanyADDRESS 207 Petr. Club Plaza, Farmington, New MexicoAGENT and TITLE George L. Hoffman, Production 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 .