

1-EPNG Bill Parish
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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 Juan
 Initial X Annual _____ Special _____ Date of Test 2/6/62
 Company Southwest Production Company Lease Hampton "D" Well No. 1
 Unit B Sec. 10 Twp. 30 Rge. 11 Purchaser El Paso Natural Gas Company
 Casing 4 1/2 Wt. 10.50 I.D. 4-040 Set at 6899 Perf. 6643 To 6746
 Tubing 1 1/2 Wt. 2.75 I.D. 1-610 Set at 6729 Perf. Open To End
 Gas Pay: From 6643 To 6746 L. 6729 xG .67 -GL 4508 Bar.Press. 12-0
 Producing Thru: Casing _____ Tubing X Type Well Single-Gas
 Date of Completion: 1/23/62 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~XXXXX~~ (Prover) (Choke) ~~XXXXX~~ (Meter) 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
1.		3/4	158		69	2178	69	2178	7 days 3 hrs.
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		170	.9913	.9463	1.017	2,006
2.							
3.							
4.							
5.							

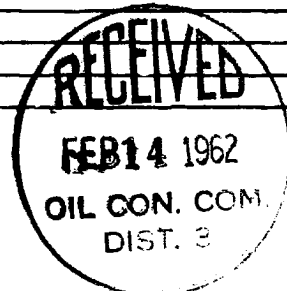
PRESSURE CALCULATIONS

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 2190 P₂ 4796.1
 P_w 871 P₂ 785.6

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.						785.6	4010.5		.397
2.									
3.									
4.									
5.									

Absolute Potential: 2,293 MCFPD; n .75
 COMPANY Southwest Production Company
 ADDRESS 207 Petroleum Club Plaza, Farmington, New Mexico
 AGENT 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} = Supercompressibility 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 .