

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Formation Mesa Verde County San Juan
 Initial X Annual _____ Special _____ Date of Test 10/22/62
 Company Skelly Oil Company Lease Marshall-Gentle Well No. 1
 Unit K Sec. 14 Twp. 27N Rge. 9W Purchaser _____
 Casing 4 1/2" OD Wt. 9.5# I.D. 4.090 Set at 4656' Perf. 4507' To 4584'
 Tubing 2-3/8" OD Wt. 4.7# I.D. 2.995 Set at 4545' Perf. Open ended 4545' To _____
 Gas Pay: From 4507 To 4584 L 4545 xG .700 -GL 3182 Bar.Press. 12.0
 Producing Thru: Casing _____ Tubing X Type Well Single - Gas
 Date of Completion: 10/22/62 Packer none Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. _____

OBSERVED DATA

Tested Through Prover (Choke) 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"	131		60	1097	60	1097	3 hour
2.								427	
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.	12.3650		143	1.0000	.9258	1.017	1.665
2.							
3.							
4.							
5.							

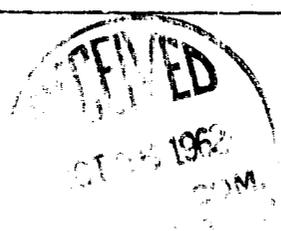
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 T_c _____ (1-e^{-S})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1109 P_c² 1229.9

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.						192.7	1037.2		.396
2.									
3.									
4.									
5.									

Absolute Potential: 1692 MCFPD; n 0.75
 COMPANY SKELLY OIL COMPANY
 ADDRESS DEALER 510, FARMINGTON, NEW MEXICO
 AGENT and TITLE William Sangley Sr. 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 .