

3-UCC
1-EPNG Parrish
1-D
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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 So. Blanco P. C. Ext. Formation Pictured Cliffs County San Juan
Initial X Annual _____ Special _____ Date of Test 7/3/61
Company Southwest Production Company Lease Bond Federal Well No. 1
Unit N Sec. 13 Twp. 26N Rge. 8W Purchaser El Paso Natural Gas Company
Casing 5 1/2" Wt. 15.5 I.D. 4.990 Set at 6663 Perf. 2136 To 2174
Tubing 1" Wt. 1.80 I.D. 1.049 Set at 2185 Perf. _____ To 2185
Gas Pay: From 2136 To 2174 L 2185 xG .67 -GL 1672.4 Bar.Press. 12.0
Producing Thru: Casing X Tubing - Type Well Gas-Gas Dual
Date of Completion: 6/12/61 Packer 6398 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (XXXXX) (Choke) (XXXXX) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (XXXXX) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						775		775		14 Days
1.		3/4"	105		66	105	66	105	66	3-Hrs.
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.	12.3650		117	.9943	.9463	1.012	1,377
2.							
3.							
4.							
5.							

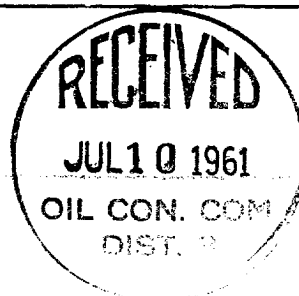
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s}) _____
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 787 P_c 619.4
P_w 117 P_w 136.9

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.						136.9	482.5		.148
2.									
3.									
4.									
5.									

Absolute Potential: 1,702 MCFPD; n .85
COMPANY Southwest Production Company
ADDRESS 162 Petr. Center Bldg., Farmington, New Mexico
AGENT and TITLE George L. Hoffman, Jr., Production Foreman
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 .