

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapacito Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Initial IX Annual _____ Special _____ Date of Test 12-1-61
Company Southern Union Prod. Company Lease Jicarilla Well No. 5-B
Unit D Sec. 26 Twp. 26N Rge. 4W Purchaser Southern Union Gas Company
Casing 7-5/8" Wt. 26.40 I.D. 6.968 Set at 5990 Perf. 3510 To 3540
Liner 5-1/2" Wt. 15.50 I.D. 4.976 Set at 5873-8018 Perf. 3510 To 3540
Tubing 1 1/2" Wt. 2.75 I.D. 1.610 Set at 3439 Perf. --- To ---
Gas Pay: From 3510 To 3540 L 3439 xG .67 -GL 2304 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing IX Type Well Dual - Gas-Oil
Guiberson Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 11/4/61 Packer Type A @ 7565 Reservoir Temp. ---

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Flow) (Line) Size	(Choke) (Surface) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						915		912		7 day S.I.
1.	2"	3/4"	71		400	71	400	318		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		83	1.0198	0.9463	1.012	1002
2.	F						
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 927 P_c² 859.329

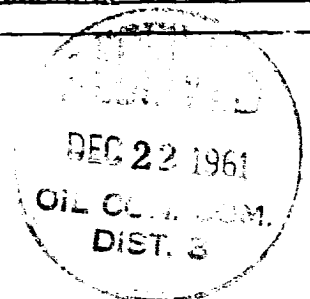
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						108.90	750.429		.3559
2.									
3.									
4.									
5.									

Absolute Potential: 1107 MCFPD; n .85COMPANY Southern Union Production CompanyADDRESS P. O. Box 808, Farmington, New MexicoAGENT and TITLE L. S. Muennink, Production SuperintendentWITNESSED Val RipperCOMPANY Southern Union Production Company

Original Signed By

L. S. MUENNINK

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 .

STATE OF NEW YORK		
OFFICE OF THE COMMISSIONER OF TAXES AND FINANCE		
IN SENATE		
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