

NEW MEXICO OIL CONSERVATION COMMISSION

Form O-122

WELL-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Formation Dakota County San Juan
 Initial ✓ Annual Special Date of Test 4/8/61
 Company Artec Oil & Gas Co. Lease Cooper "D" Well No. 3
 Unit h Sec. 6 Twp. 29N Rge. 11W Purchaser Southern Union Gas Co.
 Casing 4 1/2 Wt. 9.5 I.D. 4.090 Set at 6636 Perf. 6354 To 6464
 Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 6357 Perf. Perfor. Collar To
 Gas Pay: From 6352 To 6464 L 6357 xG 0.656 GL 4154 Bar. Press. 14
 Producing Thru: Casing Tubing ✓ Type Well Single
 Date of Completion: 4/1/61 Packer Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp.

OBSERVED DATA

Tested Through (Choke)

Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Surface) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.		0.750				1892		1900		2 days
2.						317	60	282		3 hrs.
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.	12.365		329	1.0000	0.9602	1.031	4054
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 1914 P_o 3655 (44)

No.	P _w P _t (psia)	P _t ²	F _c Q	(P _c Q) ²	(P _c Q) ² (1-e ^{-S})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	894								
2.						794236	2256508		
3.									
4.									
5.									

Absolute Potential: 4870 MCFPD; n 0.75
 COMPANY Artec Oil & Gas Company
 ADDRESS P.O. Drawer 310, Farmington, N.M.
 AGENT and TITLE ORIGINAL SIGNED BY L. M. STEVENS
 WITNESSED
 COMPANY

REMARKS

