

NEW MEXICO OIL CONSERVATION COMMISSION

Form O-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 7/24/62
Company Artes Oil & Gas Co Lease Grenier Well No. 11
Unit F Sec. 13 Twp 31N Rge. 12W Purchaser _____
Casing 4 1/2 Wt. 9 5/8 I.D. 4.000 Set at 7407 Perf. 7158 To 7330
Tubing 2 3/8 Wt. 4 1/2 I.D. 1.885 Set at 7138 Perf. Per Callan To _____
Gas Pay: From 7158 To 7330 L 7138 xG 700 xGL 4997 Bar. Press. 12
Producing Thru: Casing _____ Tubing ✓ Type Well Single-Gas
Single-Bradenhead-✓ G. or G.O. Dual _____
Date of Completion: 7/17/62 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (Choke) (None) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Choke) (Annulus) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1922		1922		
1.	2"	3/4"				285	602	815	102	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		287	1.0000	.9258	1.036	3522
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e⁻⁸)
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1934 P_c 2740.25

No.	P _w P _t (psia)	P _c ²	P _c Q	(P _c Q) ²	(P _c Q) ² (1-e ⁻⁸)	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w
1.	837					682729	3056427		827
2.									
3.									
4.									
5.									

Absolute Potential: 4098 MCFPD; n .25
COMPANY Artes Oil & Gas Co
ADDRESS Diamond 570 Farmington, N. Mex.
AGENT and TITLE B. H. Greene District Engineer
WITNESSED _____
COMPANY _____

REMARKS

