

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

Revised 12-1-55

Pool Basin			Formation Dakota			County Rio Arriba		
Initial XX		Annual		Special		Date of Test November 30, 1965		
Company PAN AMERICAN PETROLEUM CORP.			Lease San Juan 27-5 Unit			Well No. 99		
Unit A	Sec. 11	Twp. 27-N	Range 5-W		Purchaser			
Casing 4-1/2"	Wt. 10.5#	I.D. 4.052"	Set at 8838'		Perf. 8716-24, 8737-54	To 8553-85, 8664-78		
Tubing 2-3/8"	Wt. 4.7	I.D. 1.995"	Set at 8565'		Perf. 8528'	To 8534'		
Gas Pay:	From 8553'	To 8754'	L 8654'	G .700	GL 6058'	Bar. Press. 12		
Producing Through:		Casing XX	Tubing		Type Well - Single - Braden head - G.G. or G.O. Dual Single			
Date of Completion November 15, 1965		Packer None		Reservoir Temp.				

OBSERVED DATA										
Tested Through: Prover ☐ Choke ☒ Meter ☐								Type of Taps		
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
No.	(Line) Size	(Choke) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI	15 days					2493		2499		
1.	2 inch	.750	290			290	59°	1060	59°	3 hour
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-MCF P D @ 15,025 psia
1.	12.3650		302	1.0010	.9258	1.037	3589
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS							
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.				Specific Gravity Separator Gas _____			
Gravity of Liquid Hydrocarbons _____ deg.				Specific Gravity Flowing Fluid _____			
F _c _____ (1-e ^{-S})				P _c 2511 P _c ² 6,305,121			

No.	$\frac{P_w}{P_t}$ 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	$\frac{P_w}{P_c}$
1.						1,149,184	5,155,937		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **4174** MCFPD: **0.75**

COMPANY **PAN AMERICAN PETROLEUM CORPORATION** WITNESSED **Jess Goodwin**

ADDRESS **Box 480, Farmington, New Mexico** COMPANY **El Paso Natural Gas Company**

AGENT AND TITLE **BY: F. H. HOLLINGSWORTH**

G. W. Eaton, Jr., Area Engineer