

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

Form C-122
Revised 12-1-55

Pool Basin		Formation Nakota		County San Juan	
Initial II		Annual		Date of Test 6/29/66	
Company Southern Union Production Co.		Lease Arajo		Well No. 6	
Unit #	Sec. 19	Twp. 27 North	Range 8 East	Purchaser El Paso Natural Gas Company	
Casing 1.900	Wt. 10.70	I.D. 1.052	Set at 5729	Perf. 6390	To 6541
Tubing 1.900	Wt. 2.90	I.D. 1.010	Set at 6520	Perf. 6512	To 6520
Gas Pay:	From 5390	To 6521	L 6500	G .700	GL 4556
				Bar. Press. 12	
Producing Through:		Casing	Tubing II	Type Well - Single - Braden head - G.G. or G.O. Dual Single - Gas	
Date of Completion 6/29/66		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through:		Prover ☐	Choke ☒	Meter ☐	Type of Taps				
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	
1.						2073		2077	
2.						311	70	1275	
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		330	.9905	.9252	1.036	3.76
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_e _____ (1-e^{-S}) P_e **2,069** P_c **1,563,921**

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.	1.377					1,711,219	2,555,572		.626
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **5,425** MCFPD: **.75**

COMPANY **Southern Union Production Co.** WITNESSED **Walt Garrison**

ADDRESS **P.O. Box 600** Original signed by **Kenneth E. Roddy** COMPANY **El Paso Natural Gas Company**
Perkins, New Mexico

AGENT AND TITLE **Kenneth E. Roddy, Office Manager**

