

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 San Juan	
Initial Basin	Annual XX	Special	Date of Test 1/17/61		
Company Southern Union Production Company		Lease Newton		Well No. 18	
Unit M	Sec. 20	Twp. 26 North	Range 8 West	Purchaser El Paso Natural Gas Company	
Casing 1.500	Wt. 16.50	I.D. 1.052	Set at 6163	Perf. 6578	To 6812
Tubing 2.375	Wt. 1.70	I.D. 1.995	Set at 6736	Perf. 6739	To 6736
Gas Pay: 6578	From 6812	To 6739	L .700	G 1704	GL Bar. Press. 12
Producing Through: XX			Type Well - Single - Braden head - G.G. or G.O. Dual Single - Gas		
Date of Completion 1/3/61		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.	Temp. °F.	
1.	2"	3/4"				1950		1951		10 days 3 hours
2.						230	76	71.8		
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.	12.9650		242	.9831	.9258	1.025	2,792
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 **1,910** P_c^2 **3,650,000**

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
1.	760					577,600	3,301,300	
2.								
3.								
4.								
5.								



ABSOLUTE POTENTIAL: **3,150** MCFPD; n **.75**

COMPANY **SOUTHERN UNION PRODUCTION COMPANY** WITNESSED **Al Lelait**

ADDRESS **P.O. Box 808, Farmington, New Mexico** COMPANY **El Paso Natural Gas Company**

AGENT AND TITLE **Kenneth E. Roddy** Original signed by **Kenneth E. Roddy**
Production Technician