

**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 IX		Annual		Date of Test 7/26/66	
Company Southern Union Production Co.		Lease Newsom		Well No. 15	
Unit B	Sec. 18	Twp. 26 North	Range 8 West	Purchaser El Paso Natural Gas Company	
Casing 4.500	Wt. 10.50	I.D. 4.052	Set at 6634	Perf. 6344	To 6575
Tubing 1.900	Wt. 2.90	I.D. 1.610	Set at 6517	Perf. 6509	To 6517
Gas Pay:	From 6344	To 6575	L 6505	G .700	GL 4554
					Bar. Press. 12
Producing Through:		Casing	Tubing IX	Type Well - Single - Braden head - G.G. or G.O. Dual Single-Gas	
Date of Completion 7/27/66		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through:		Prover ☐	Choke IX	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.						1999		1987		9 days
2.						245	65	931		3 hours
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		257	.9952	.9258	1.028	3013
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 **2011** P_c² **4,044,121**

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.	943					889,249	3,154,872		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **3630** MCFPD; n **.75**

COMPANY **Southern Union Production Company** WITNESSED **Herman McAnally**

ADDRESS **P. O. Box 808 - Farmington, N.M.** COMPANY **El Paso Natural Gas Company**

AGENT AND TITLE **Kenneth E. Kelly Prod. Tech.**

