

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 XX		Annual		Special		Date of Test 9/29/67		
Company SOUTHERN UNION PRODUCTION COMPANY				Lease NEWSON "A"		Well No. 4		
Unit L	Sec. 10	Twp. 26 N	Range 8 W		Purchaser EL PASO NATURAL GAS COMPANY			
Casing 4.500	Wt. 10.50	I.D. 4.052	Set at 7382		Perf. 7115		To 7322	
Tubing 1.900	Wt. 2.90	I.D. 1.610	Set at 7242		Perf. 7232		To 7242	
Gas Pay:	From 7115	To 7322	L 7382	G .700	GL 5167	Bar. Press. 12		
Producing Through:		Casing XX	Tubing		Type Well - Single - Braden head - G.G. or G.O. Dual SINGLE - GAS			
Date of Completion 8/26/67		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"				2002		1983		8 DAYS
2.						581		402	77	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 PD @ 15,025 psia
1.	12.3650		414	.9840	.9258	1.046	4,878
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}) _____ P₁ **2014** P_c² **4,056,196**

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.	593					351,649	3,704,547		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **5,221** MCFPD; n **.75**

COMPANY **SOUTHERN UNION PRODUCTION COMPANY** WITNESSED **HERMAN McANALLY**

ADDRESS **P. O. Box 808, FARMINGTON, NEW MEXICO** COMPANY **EL PASO NATURAL GAS COMPANY**

AGENT AND TITLE **KENNETH E. RODDY, PRODUCTION TECHNICIAN** Original signed by
Kenneth E. Roddy



