

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

Form C-122
Revised 12-1-55

Pool UNDESIGNATED		Formation FRUITLAND		County SAN JUAN	
Initial XX		Annual		Date of Test 4/27/67	
Company SOUTHERN UNION PRODUCTION COMPANY		Lease ANGEL PEAK #B		Well No. 12	
Unit A	Sec. 25	Twp. 28 N	Range 11 W	Purchaser SOUTHERN UNION GAS COMPANY	
Casing 5.500	Wt. 17.0	I.D. 4.892	Set at 1953	Perf. 1560	To 1582
Tubing 1.900	Wt. 2.75	I.D. 1.610	Set at 1571	Perf. 1563	To 1571
Gas Pay: 1560		Casing 1582		Bar. Press. 1100	
Producing Through:		Tubing 1555		Type Well - Single - Braden head - G.G. or G.O. Dual GAS - GAS DUAL	
Date of Completion 4/8/67		Packer 1800		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.	
SI										
1.	2"	3/4"				654		654		7 DAY 3
2.						61	600	171		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.							
2.	12.3650		73	1.0000	.9258	1.0000	836
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio APR 28 1967 cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ P_c 666 P_c² 443,556

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.									
2.	183					33,489	410,067		
3.									
4.									
5.									

ABSOLUTE POTENTIAL: 894 MCFPD; n .85

COMPANY SOUTHERN UNION PRODUCTION COMPANY WITNESSED _____

ADDRESS P. O. Box 808, FARMINGTON, NEW MEXICO COMPANY _____

AGENT AND TITLE KENNETH E. RODDY, PRODUCTION TECHNICIAN

Original signed by
Kenneth E. Roddy