

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 X		Annual		Special		Date of Test 3/1/66		
Company SOUTHERN UNION PRODUCTION COMPANY				Lease ANGEL PEAK "B"			Well No. 27	
Unit B	Sec. 25	Twp. 28-N	Range 11-W		Purchaser EL PASO NATURAL GAS COMPANY			
Casing 4-1/2	Wt. 10.50	I.D. 4.052	Set at 6326		Perf. 6028	To 6110		
Tubing 1-1/2	Wt. 2.90	I.D. 1.610	Set at 6100		Perf. 6092	To 6100		
Gas Pay:	From 6028	To 6110	L 6082	G .700	GL 4257	Bar. Press. 12		
Producing Through:		Casing	Tubing X (1-1/2)		Type Well - Single - Braden head - G.G. or G.O. Dual NONE AVAILABLE			
Date of Completion 3-1-66		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.	Temp. °F.	
1.						1707		1708		8 DAYS SIP 3 Hr.
2.						401	68	1412		
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.	12.365		413	0.9924	0.9258	1.049	4,922
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 1720 P _c ² 2,958,400				
No.	P _w 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	P _w P _c
1.	1424					2,027,776	930,624		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **11,718** MCFPD; n **.75**

COMPANY **SOUTHERN UNION PRODUCTION COMPANY** WITNESSED **HERMAN MCANALLY**

ADDRESS **P.O. Box 808** COMPANY **EL PASO NATURAL GAS COMPANY**

AGENT AND TITLE **BENNY E. BECHTOL, PETROLEUM ENGINEER**

