

J. J. J.

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 RIO ARRIBA	
Initial XX		Annual		Special		Date of Test 10/17/66
Company SOUTHERN UNION PRODUCTION Co.			Lease JICARILLA "J"		Well No. 7	
Unit D	Sec. 36 25	Twp. 26 N	Range 5 W	Purchaser SOUTHERN UNION GAS COMPANY		
Casing 5.500	Wt. 15.50	I.D. 4.950	Set at 7609	Perf. 7272	To 7518	
Tubing 1.900	Wt. 2.90	I.D. 1.610	Set at 7432	Perf. 7424	To 7432	
Gas Pay:	From 7272	To 7518	L 7422	G .700	GL 5195	Bar. Press. 12.0
Producing Through:		Casing	Tubing XX	Type Well - Single - Braden head - G.G. or G.O. Dual DUAL - GAS - GAS		
Date of Completion 9/17/66		Packer 7200		Reservoir Temp.		

OBSERVED DATA

Tested Through:			Prover <input type="checkbox"/>	Choke <input checked="" type="checkbox"/>	Meter <input type="checkbox"/>	Type of Taps				
FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.	
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig.	Diff. hw	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.		Temp. °F.
1.	2"	3/4"				2089 302	61			7 DAYS 3 HOURS
2.										
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		394	.9990	.9258	1.048	4722
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 **16.46** $(1-e^{-S})$ **0.315** P_c **2101** P_c^2 **4,414,201**

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.	394	155,236	77,724	6,061,020	1,902,921	1,980,665	2,433,536		
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **7,380** MCFPD; η **.75**

COMPANY **SOUTHERN UNION PRODUCTION COMPANY** WITNESSED _____

ADDRESS **P. O. Box 808, FARMINGTON, N. Mex.** COMPANY _____

Original signed by
Kenneth E. Roddy
AGENT AND TITLE **KENNETH E. RODDY, PROD. TECH.**



