

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Pictured Cliffs County San Juan  
 Initial x Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test Sept. 26, 1957  
 Company Southern Union Gas Co. Lease Navajo Indian Well No. 1-B  
 Unit M Sec. 30 Twp. 27N Rge. 8W Purchaser \_\_\_\_\_  
 Casing 5 1/2" Wt. 15.5 I.D. 4.950 Set at 2117 Perf. 2000 To 2060  
 Tubing 1" Wt. 1.7 I.D. \_\_\_\_\_ Set at 2046 Perf. 2026 To 2046  
 Gas Pay: From 2000 To 2060 L \_\_\_\_\_ xG 0.67 est. -GL \_\_\_\_\_ Bar. Press. 12.0  
 Producing Thru: Casing x Tubing \_\_\_\_\_ Type Well Single-Gas  
 Single-Bradenhead-G. G. or G.O. Dual \_\_\_\_\_  
 Date of Completion: Sept. 3, 1957 Packer \_\_\_\_\_ Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps \_\_\_\_\_

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) <del>(Orifice)</del> Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	
SI						701		701	23 days
1.		3/4"	266		67°	318		266	3 hours
2.									
3.									
4.									
5.									

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor Ft	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		278	0.9933	0.9463	1.030	3,328
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
 Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
 F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)  
 Specific Gravity Separator Gas \_\_\_\_\_  
 Specific Gravity Flowing Fluid \_\_\_\_\_  
 P<sub>c</sub> 713 P<sub>c</sub><sup>2</sup> 508.4  
 P<sub>w</sub> 330 P<sub>w</sub><sup>2</sup> 108.9

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> /P <sub>c</sub>
1.						108.9	399.5		0.464
2.									
3.									
4.									
5.									

Absolute Potential: 4077 MCFPD; n 0.85

COMPANY Southern Union Gas Company  
 ADDRESS P. O. Box 815; Farmington, New Mexico  
 AGENT and TITLE Gilbert Noland, Jr., Ass't. Drl.; Supt.  
 WITNESSED \_\_\_\_\_  
 COMPANY \_\_\_\_\_

REMARKS



