

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool BIANCO Formation MESA VERDE County SAN JUAN
Initial TEST AFTER Annual WORK OVER Date of Test JUNE 14, 1956
Company SOUTHERN UNION GAS Lease NORDHAUS Well No. 1
Unit N Sec. 13 Twp. 31N Rge. 9 W Purchaser SOUTHERN UNION GAS CO.,
Casing 5 1/2" Wt. 15 1/2# I.D. Set at 5174 Perf. To
Tubing 2 3/8 Wt. 4.70# I.D. Set at 5953 Perf. To
Gas Pay: From 5135 To 6050 L xG .670 -GL Bar.Press. 12.0
Producing Thru: Casing Tubing x Type Well Single - gas
Date of Completion: Single-Bradenhead-G. G. or G.O. Dual
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) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI						898	971	
1.		3/4	269		68	2.69	785	3 hrs
2.								
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		281	0.9924	0.9463	1.028	3348.4
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c (1-e^{-s})

Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 983 P_c 966.29

No.	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	P _w P _c
1.						635.21	331.08		0.811
2.									
3.									
4.									
5.									

Absolute Potential: 7,490 MCFPD; n 0.75COMPANY SOUTHERN UNION GAS CO.,ADDRESS AGENT and TITLE GIB. NOLAND, ENGINEERWITNESSED DERALD FERRARI.COMPANY

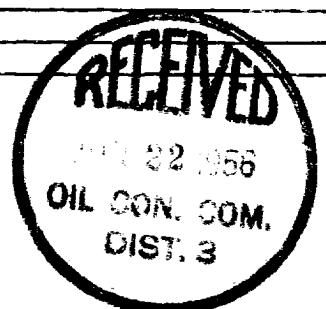
REMARKS

CC: N.M.O.C.C. 3 CC

VARS RATES 1

AL WIEDERKEHR 1

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