

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Balladd Pictured Cliffs Formation Pictured Cliffs County San Juan
Initial x Annual _____ Special _____ Date of Test Feb. 16, 1964
Company Huron Drilling Company, Inc. Lease Davis Well No. 2
Unit 0 Sec. 5 Twp. 26N Rge. 8W Purchaser Southern Union Gas Company
Casing 4 1/2" Wt. 9.50 I.D. 4.090 Set at 2264 Perf. 2064 To 2162
Tubing 1" Wt. 1.70 I.D. 1.049 Set at 2058 Perf. 2048 To 2058
Gas Pay: From 2064 To 2162 L _____ xG 0.67 Est. GL _____ Bar.Press. 12.0
Producing Thru: Casing x Tubing _____ Type Well Single gas
Single-Bradenhead-G. G. of G.O. Dual
Date of Completion: Feb. 3, 1964 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Grouser) (Choke) (Meter) Type 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						625		640		12 days
1.		3/4"	142			158		142	600F	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		154	1.000	0.9463	1.015	1,829
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

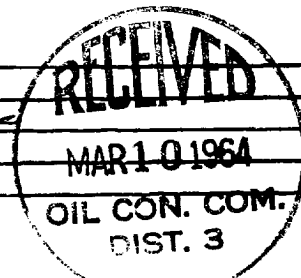
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 652 P_c² 425

P_w 170 P_w 28.9

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.						28.9	396.1		0.261
2.									
3.									
4.									
5.									

Absolute Potential: 1.942 MCFPD; n 0.85COMPANY Huron Drilling Company, Inc.ADDRESS 715 Farmers Union Bldg., Denver 3, ColoradoAGENT and TITLE R. M. Phillips, Drilling Supt. *R. M. Phillips*WITNESSED G. D. NolandCOMPANY Southern Union Production Co.

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .