



NEW MEXICO OIL CONSERVATION COMMISSION

MM OCC Aztec - 3
Santa Fe - 2
Geo Peppin - 1
L. G. Truby - 1
File - 1

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapacito PC Extn. Formation Pictured Cliffs County Rio Arriba
Initial Annual Special XX Date of Test 9-17-56
Company Northwest Production Corp. Lease "N" Well No. 7-8
Unit A Sec. 8 Twp. 26N Rge. 4W Purchaser Not Connected
7 20# 4120 3884 3916
Casing 5 Wt. 11.5# I.D. Set at 6216 Perf. 5548 To 6168
Tubing 2-3/8 Wt. 4.7# I.D. Set at 6115 Perf. To
Gas Pay: From 3884 To 3916 L 3884 xG .690 -GL 2680 Bar.Press. 12.0
Producing Thru: Casing X Tubing Type Well Dual - G-G
Date of Completion: 8-7-56 Packer 5493 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp.

OBSERVED DATA

Tested Through (~~2-3/8~~) (Choke) (~~2-3/8~~) Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(2-3/8) (Line) Size	(Choke) (2-3/8) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1131		1063		SI
1.										
2.										
3.	2	3/4	429		65			429	65	3 hrs
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-MCFPD @ 15.025 psia
1.							
2.							
3.	14.1605		441	.9952	.9325	1.050	6,085
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c .707 (1-e^{-s}) .168 Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1075 P_c² 1155.6

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.									
2.									
3.	441	194.5	4.30	18.49	3.1	197.6	958.0	444	1.206
4.									
5.									

Absolute Potential: 7,155 MCFPD; n .85/1.1358

COMPANY Northwest Production Corporation
ADDRESS 520 Simms Bldg., Albuquerque, N.M.
AGENT and TITLE W. B. Richardson III, Well Test Engr.
WITNESSED A. R. Kendrick
COMPANY MM OCC

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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
Well No.	2	
County		
Section	1	
Range		
State		
U.S. No.	1	
Transfer		
File	1	✓