

NM OCC-3
Truby-1
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File-1

NEW MEXICO OIL CONSERVATION COMMISSION

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 XX Annual _____ Special _____ Date of Test 4-12-57
Company Northwest Production Corp. Lease "E" Well No. 3-34
Unit N Sec. 34 Twp. 26N Rge. 3W Purchaser Not connected
Casing 7-5/8 Wt. 26.4 I.D. _____ Set at 4130 Perf. 3936 To 3960
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 5669 Perf. _____ To _____
Gas Pay: From 3936 To 3960 L 3936 xG .650 -GL 2558 Bar.Press. _____
Producing Thru: Casing XX Tubing _____ Type Well Dual - G-G
Date of Completion: 3-25-57 Packer Yes - 5479 Single-Bradenhead-G. G. or G.O. Dual
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) (077776) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI						1125	1040	SI
1.								
2.		3/4				1156	79	56
3.								3 hr
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.	14.1605		91	1.0039	.9608	1.003	1253
3.							
4.							
5.							

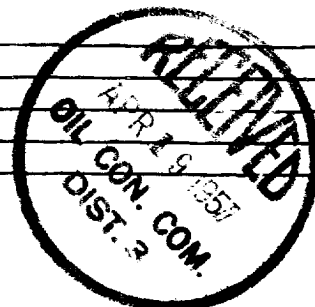
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c .651 (1-e^{-s}) .170
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1052 P_c² 1107

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.	91	8.3	.82	.67	.11	8.4	1098.6		1.0076
4.									
5.									

Absolute Potential: 1261 MCFPD; n .85 1.00648
COMPANY Pacific Northwest Pipeline Corporation
ADDRESS 4034 W. Broadway, Farmington, New Mexico
AGENT and TITLE C. R. Wagner, Well Test Engineer
WITNESSED E. C. Arnold
COMPANY N. M. Oil Conservation Commission

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 .