

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS.

Revised 12-1-55

Pool Tubb Formation Tubb County 2
Initial X Annual _____ Special _____ Date of Test 2-23 & 2-24-59
Company Carl J. Westlund, Inc. Lease Danglade Well No. 1
Unit B Sec. 24 Twp. 22S Rge. 37E Purchaser Permian Basin Pipe Line Co.
Casing 7-5/8 Wt. 29.7 I.D. 6.625 Set at 5359 Perf. 6032 To 6228
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6015 Perf. Open end To _____
Gas Pay: From 6032 To 6228 L 6015 mix. 853 GL 5130.8 Bar. Press. 13.2
Producing Thru: Casing No Tubing Yes Type Well Gas-Gas Dual
Date of Completion: 2-24-59 Packer 6000' Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 100

OBSERVED DATA

Tested Through (Prover) (~~Orifice~~) (~~Mix~~) Type Taps None

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Orifice) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	2	.625	457.0		51	1935.7	61			70.50
2.						757.0				22.00
3.										
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.	8.3555		470.2	1.0088	.9258	1.062	3897
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 12,798 cf/bbl. Estimated
Gravity of Liquid Hydrocarbons 52.2 deg. Specific Gravity Separator Gas .700
P_c 9.936 (1-e^{-S}) 297 Specific Gravity Flowing Fluid .770
P_c 1948.9 P_c 3.798

No.	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.	770.2	593.2	38.721	1499.316	445.297	1039	2759	1019	.523
2.					285.2		2759	1019	.523
3.									
4.									
5.									

Absolute Potential: 4953 MCFPD; n .75COMPANY Carl J. Westlund, Inc.ADDRESS Box 197, Midland, TexasAGENT and TITLE J. B. Brown Agent

WITNESSED *

COMPANY *

REMARKS

* Tested by R.L. West, Permian Basin Pipe Line Co.

Witnessed by: J.W. Brown, Vice Pres., Carl J. Westlund, Inc.

J.B. Thompson, Assistant to Mr. Brown

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} = Supercompressibility 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 .

WESTLUND, CARL J. INC.
DANGLADE # 1-T
NW NE 24-22S-37E
TUBB GAS POOL

Date of Test - 2-23/24-59

200

Slope (n) = 0.75 (Average Tubb Gas Pool Slope)

Abs. Pot. = $3796 \cdot 75$
= $3897(2018)$ = $3897(1.251)$ = 4875 Mcf/d.

W.H. Pot. = $3796 \cdot 75$
= $3897(3205)$ = $3897(1.134)$ = 4427 Mcf/d.

Estimated Ability to Produce at 500 psig = 4190 Mcf/d.

PC2 - P2

LOGARITHMIC 358-110
WESTLUND, CARL J. INC.
DANGLADE # 1-T
NW NE 24-22S-37E
TUBB GAS POOL

