

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE CCC

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Jalmat Formation Yates County Lea
Initial _____ Annual X Special _____ Date of Test 4-21-58
Company Continental Oil Company Lease Stevens A-34 Well No. 1
Unit E Sec. 34 Twp. 23 Rge. 36 Purchaser El Paso Nat. Gas Company
Casing 7" Wt. 20# I.D. 6.456 Set at 3309 Perf. _____ To _____
Tubing 2" Wt. 4.7 I.D. 1.995 Set at 3268 Perf. _____ To _____
Gas Pay: From 3235 To 3260 L 3268 xG .745 -GL 2435 Bar.Press. 13.2
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 8-15-37 Packer None Reservoir Temp. 90° Steel
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through ~~(Packer)~~ ~~(Choke)~~ (Meter)Type Taps Flange

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
SI								
1.	<u>4"</u>	<u>.500</u>	<u>277</u>	<u>42.90</u>	<u>44</u>	<u>905</u>		<u>72</u>
2.						<u>284</u>		<u>24</u>
3.								
4.								
5.								

FLOW CALCULATIONS

No.	Coefficient Flange (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.	<u>1.525</u>	<u>111.54</u>		<u>1.0157</u>	<u>.8974</u>	<u>1.043</u>	<u>162</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 9.936 (1-e^{-s}) .154

Specific Gravity Separator Gas .745
Specific Gravity Flowing Fluid _____
P_c 918.2 P_c 843.0

No.	P_{max} 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.	<u>297.2</u>	<u>88.3</u>	<u>1.61</u>	<u>2.59</u>	<u>.398</u>	<u>88.6</u>	<u>754.4</u>	<u>297.7</u>	<u>32.42</u>
2.									
3.									
4.									
5.									

Absolute Potential: 178 MCFPD; n .771COMPANY Continental Oil CompanyADDRESS Box 68, Eunice, New MexicoAGENT and TITLE _____

WITNESSED _____

COMPANY _____

REMARKS

Unable to obtain test data during the Multi-point test schedule. This data obtained from deliverability test of 3-21-58 and the average Jalmat slope of .771 drawn thru one point.

NMOCC-3 EWW HLJ RLA File-2

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 .