

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

3 NMOC
1 Case
1 Reese
1 File

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Aztec Formation Fruitland County San Juan
Initial X Annual _____ Special _____ Date of Test 1-5-59
Company Paul Case Lease Sullivan Well No. 6
Unit B Sec. 25 Twp. 29N Rge. 11W Purchaser _____
Casing 5-1/2 Wt. 144 I.D. 5.012" Set at _____ Perf. 1482 To 1520
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 1482 To 1520 L 1647 xG .60 -GL 988 Bar.Press. _____
Producing Thru: Casing X Tubing _____ Type Well G. G. Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-27-58 Packer 1647' Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Valve) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI								<u>586</u>	<u>52</u>	
1.										
2.		<u>3/4"</u>	<u>239</u>		<u>50</u>					<u>3 hrs.</u>
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.							
2.	<u>12.365</u>		<u>251</u>	<u>1.0098</u>	<u>1.000</u>	<u>1.022</u>	<u>3203</u>
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 1.62 (1-e^{-s}) .069

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 598 P_c² 357.604

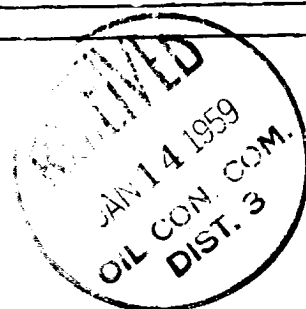
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.									
2.	<u>251</u>	<u>63.001</u>	<u>5.19</u>	<u>26.94</u>	<u>1.86</u>	<u>64.861</u>	<u>292.74</u>		<u>1.222</u>
3.									
4.									
5.									

Absolute Potential: 3799 MCFPD; n = .85 = 1.186COMPANY Paul CaseADDRESS c/o Val R. Reese & Associates, Inc., 120 So. Commercial, Farmington, New MexicoAGENT and TITLE Original signed by T. A. Dugan

WITNESSED _____

COMPANY _____

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 .

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