

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool OTERO CHACRA Formation CHACRA County RA
Initial X Annual _____ Special _____ Date of Test 6-12-57
Company SKELLY OIL CO Lease JIGABILLA "C" Well No. 15
Unit G Sec. 34 Twp. 25N Rge. 5W Purchaser EL PASO NATURAL GAS CO
Casing 5 1/2 Wt. 14 I.D. _____ Set at 3908 Perf. 3726 To 3775
Tubing 2" Wt. 4.70 I.D. 2 Set at 3650 Perf. 2886 To 2910
Gas Pay: From 2886 To 2910 L 3650 xG .600 -GL 2190 Bar.Press. 12.00
Producing Thru: Casing _____ Tubing X Type Well G-G Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer 3648 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) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.		<u>1"</u>	<u>109</u>		<u>68</u>	<u>933</u>		<u>864</u>		<u>THREE</u>
2.										
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.	<u>14,1605</u>		<u>121</u>	<u>.9924</u>	<u>1.000</u>	<u>1.000</u>	<u>1700</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-S}) .119
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 945 P_c² 893,025

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.	<u>121</u>	<u>14,641</u>	<u>15.98</u>	<u>255.469</u>	<u>30,401</u>	<u>44,042</u>	<u>848,983</u>	<u>210</u>	<u>.22222</u>
2.									
3.									
4.									
5.									

Absolute Potential: 1764 MCFPD; n .75COMPANY GELECTRIC INCADDRESS Box 842, AZTEC, N. M.AGENT and TITLE B H Keyes AGENTWITNESSED A. R. KENDRICKCOMPANY 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} = 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 .

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