

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County Rio Arriba
 Initial X Annual _____ Special _____ Date of Test 2-3-63
 Company Caulkins Oil Company Lease Reuter Well No. D-344
 Unit C Sec. 22 Twp. 26N Rge. 6W Purchaser El Paso Natural Gas Company
 Casing 5" Wt. 15# I.D. 4.408 Set at 75 75 Perf. 7210 To 7420
 Tubing 2 3/8" Wt. 4.7 I.D. 1.995 Set at 7208 Perf. _____ To _____
 Gas Pay: From 7210 To 7420 L 7208 xG .660 -GL 4757 Bar.Press. _____
 Producing Thru: Casing No Tubing Yes Type Well Single Gas
 Date of Completion: XXX 1-16-63 Packer No Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp. 185°

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	
1.						2330		2330	7 day
2.						221	55	597	3 hour
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.	14.1605		233	1.0048	.9535	1.025	3239
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

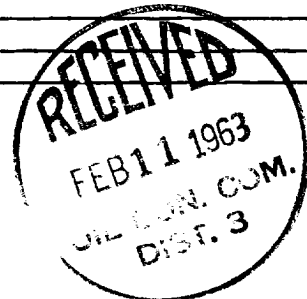
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c _____ (1-e^{-s})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 2342 P_c² 5,484,964

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.						370,881	5,114,083		.260
2.									
3.									
4.									
5.									

Absolute Potential: 3407 MCFPD; n (XXX (1.07)n 1.0520

COMPANY Caulkins Oil Company
 ADDRESS P. O. Box 780 Farmington, New Mexico
 AGENT and TITLE Charles Desjardis Production Foreman
 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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