

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 9-30-59
Company Caulkins Oil Company Lease Breech Well No. MD-244
Unit A Sec. 14 Twp. 26N Rge. 6W Purchaser Southern Union Gas Company
Casing 5 1/2" Wt. 15.5# I.D. 4.950 Set at 7616 Perf. 7294 To 7520
Tubing 2 3/8 Wt. 4.7# I.D. 1.995 Set at 7490 Perf. 7482 To 7486
Gas Pay: From _____ To 7520 L 7482 xG .660 -GL 4938 Bar.Press. 12#
Producing Thru: Casing No Tubing Yes Type Well Single-Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-23-59 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (22000) (Choke) (22115) 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						2590		2590		7 day SI
1.		3/4"	414		70°	414	70°	1302	70°	3 hr test
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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		426	.9903	.9335	1.042	5936
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 _____ P_c² _____

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.						1,726,596	5,043,808		.505
2.									
3.									
4.									
5.									

Absolute Potential: 7,393 MCFPD; n(1.34)ⁿ 1.2454

COMPANY Caulkins Oil Company

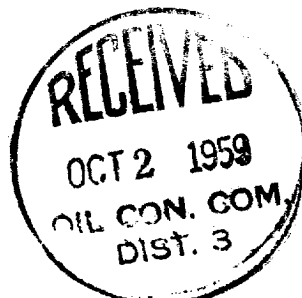
ADDRESS P. O. Box 967, Farmington, New Mexico

AGENT and TITLE Charles Dwyer 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} = 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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