

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 7-28-60
Company Caulkins Oil Company Lease 87-079304 Well No. Sanchez # 1
Unit D Sec. 24 Twp. 26N Rge. 6W Purchaser _____
Casing 5" Wt. 154 I.D. 4.408 Set at 7650 Perf. 7268 To 7488
Tubing 2 3/8" Wt. 4.74 I.D. 1.995 Set at 7240 Perf. 7240 To _____
Gas Pay: From 7268 To 7488 L 7240 xG 0.660 -GL 4778 Bar.Press. _____
Producing Thru: Casing No Tubing Yes Type Well Gas-Gas Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 7-21-60 Packer 7240 Reservoir Temp. _____

OBSERVED DATA

Tested Through XXXXX (Choke) XXXXX 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		XXXX	XXX			2400	60	PKR		7 day SI
1.		3/4"	330			330	60	PKR		3 hr
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.	14.1605		342	1.000	.9535	1.024	4729
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) 0.293
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2412 P_c 5,817,744

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.						697,225	5,120,519	835	.346
2.									
3.									
4.									
5.									

Absolute Potential: 5217 MCFPD; n .75COMPANY Caulkins Oil CompanyADDRESS Box 780, Farmington, New MexicoAGENT and TITLE 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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