

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin-Dakota Formation Dakota County San Juan
 Initial X Annual _____ Special _____ Date of Test 8-7-61
 Company FUBCO PETROLEUM CORPORATION Lease Federal 29-11 Well No. 1-0
 Unit 0 Sec. 1 Twp. 29 N Rge. 11 W Purchaser El Paso Natural Gas Company
 Casing 5 1/2 Wt. 15 1/2 I.D. _____ Set at 6710 Perf. 6598 To 6648
 Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 6644 Perf. _____ To 6644
 Gas Pay: From 6540 To 6648 L 6594 xG 0.650 -GL _____ Bar. Press. 12.025
 Producing Thru: Casing _____ Tubing X Type Well Single
 Date of Completion: 7-24-61 Packer No Single-Bradenhead-G. G. or G.O. Dual
 Reservoir Temp. 178

OBSERVED DATA

Tested Through (Prover) (Choke) (Seper) Type taps Flange

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
SI	2"	0.750				2073		2073	
1.						415		1090	1
2.						328		875	2
3.						307		786	3
4.									
5.									

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wDf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		319	0.9813	0.9608	1.025	3,812
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas 0.65
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 P_c _____ (1-e^{-S}) P_c 2085 P_c 4,347,205

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.	798					636,804	3,710,421		
2.									
3.									
4.									
5.									

Absolute Potential: 4292 MCFPD; n 0.75

COMPANY FUBCO PETROLEUM CORPORATION
 ADDRESS 108 West Chuuka, Aztec, New Mexico
 AGENT and TITLE R. H. Weychhoff, Jr. District Engineer
 WITNESSED Dan Jamerson
 COMPANY Fubco Petroleum Corporation

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 .