

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 San Juan
Initial X Annual _____ Special _____ Date of Test 1-8-65
Company Tenneco Oil Co. Lease Florance Well No. 31
Unit A Sec. 12 Twp. 29 Rge. 8 Purchaser No Connection
Casing 4 1/2 Wt. _____ I.D. _____ Set at 7555 Perf. _____ To _____
Tubing 2 3/8 Wt. _____ I.D. _____ Set at 7275 Perf. _____ To _____
Gas Pay: From _____ To _____ L _____ xG 0.65 -GL 4729 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well G - G Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-7-64 Packer 7265 Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Meter~~)~~Flow Meter~~

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										
1.		3/4				2127		Dual		
2.						153	65	"		3 Hours
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.	12.3650		165	.9952	.9608	1.017	1985
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

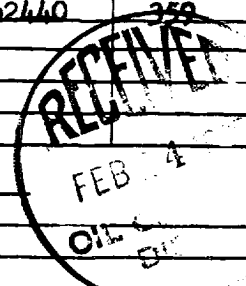
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) 0.291

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2139 P_c 4575321

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.	359	27.225	18.663	348.308	101.387	128.881	4562440	359	
2.									
3.									
4.									
5.									

Absolute Potential: 1989 MCFPD; n .75
COMPANY Tenneco Oil Company
ADDRESS P. O. Box 1714, Durango, Colorado
AGENT and TITLE R. E. Siverson, District Production Superintendent
WITNESSED J.D. Hicks
COMPANY Tenneco Oil 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 .

RECEIVED
FEB 22 1965
OIL COMPANY
COLORADO