

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County Arriba
Initial Annual Special Date of Test 2-15-1965
Company X Lease Tenneco Oil Company Well No. A 2
Unit Sec. 16 16 Twp. 26 Rge. 5 Purchaser Jicarilla
Casing Wt. 16 16 I.D. 26 Set at 5 Perf. 7396 To 7627
Tubing 5.5 Wt. 15.5 I.D. 7749 Set at 7396 Perf. 7627 To 7627
Gas Pay: 2 1/16 From 1.750 To 7386 KG -GL Bar.Press. 8.50
Producing Thru: Casing X Tubing Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: X Packer Reservoir Temp.

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	Temp. °F.	
1.										
2.										
3.		3/4				2444 310	56	Plur. Plur.		3 hours
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.							
2.							
3.	12.3650		322	1.0039	.9608	1.033	3969
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
 P_c (1-e^{-s})
13.239 0.295

Specific Gravity Separator Gas 650
Specific Gravity Flowing Fluid 650
 P_c 2456 P_c^2 6031936

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.									
2.									
3.	322	103.684	52.546	2761.082	814.519	919681	5112255	959	1.180
4.									
5.									

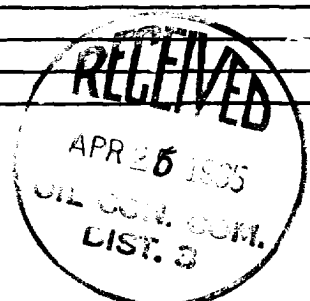
Absolute Potential: MCFPD; nCOMPANY 4493 ADDRESS .75 (1.1321)

AGENT and TITLE

WITNESSED

COMPANY

Tenneco Oil Company

J. D. Hoke
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 .

RECEIVED
APR 11 1973
SANTA FE, N.M.