

3-OCC

1-HLKendrick

NEW MEXICO OIL CONSERVATION COMMISSION

1-BParrish

1-JGlen Turner

2-Turner, Steward, Mur. Francis

Form C-122

1-LDH, 1-TCA,

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

1-TCowan, 1-F

Pool Basin Dakota Formation Dakota County San JuanInitial X Annual _____ Special _____ Date of Test 12-7-64Company Beta Development Co. Lease Potter Canyon Well No. 1Unit G Sec. 7 Twp. 29 Rge. 10 Purchaser El Paso Natural Gas Co.Casing 4 1/2 Wt. 10.5 I.D. 4.052 Set at 6678 Perf. 6534 To 6667Tubing 2-3/8 Wt. 4.70 I.D. 1.995 Set at 6642 Perf. open To endGas Pay: From 6534 To 6667 L 6630 xG .670 -GL 4442' Bar.Press. 12.0Producing Thru: Casing _____ Tubing X Type Well single - gas

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 11-27-64 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meters) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2219		2220		10 days
1.		3/4	465		86	465		1335		3 hrs
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.	<u>12.3650</u>		<u>477</u>	<u>.9759</u>	<u>.9463</u>	<u>1.044</u>	<u>5.687</u>
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 2232 P_c² 4981.8P_w 1347 P_w² 1814.4

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.						<u>1814.4</u>	<u>3167.4</u>		<u>.603</u>
2.									
3.									
4.									
5.									

Absolute Potential: 7,985 MCFPD; n .75COMPANY Beta Development Co.ADDRESS 234 Petr. Club Plaza, Farmington, N. M.AGENT and TITLE G.L.Hoffman, Production EngineerWITNESSED Cla rence WagnerCOMPANY El Paso Natural Gas Co.

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 .