Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Pool Basin Dakota			Formation		Dakota.		County San Juan			
										8-24-64	
Compa	TEXACO	Inc.			Lease St	.of N.M	. QU "J	wel	1 No	1	
Unit	I Se	ec32	Twp	30 Rg	e1	O Purch	aser Kulo		60	hr	
Casir	ıg 5 <del>1</del> Wi	. 14	I.D	5.01 <sub>Se</sub>	t at 70	35 Per	f. 6954		To 69	56	
Tubing 2-3/8 Wt. 4.7 I.D. 1.99 Set at 6905 Perf. open end To											
Gas Pay: From 6942 To 6956 L 6905 xG .700 -GL 4834 Bar.Press.											
Producing Thru: Casing Tubing X Type Well Gas - Gas Dual											
Producing Thru: Casing Tubing X Type Well Gas - Gas Dual  Single-Bradenhead-G. G. or G.O. Dual  Reservoir Temp.											
OBSERVED DATA											
Tested Through (Choke) (Meter)  Flow Data  Tubing Data  Casing Data  (Prover) (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. Of Flow											
	(Prover)	(Chok	e) Pre	ss. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
No.	(Line) Size	(OFIFE	e ps	ig h <sub>w</sub>	o <sub>F</sub> .	p <b>sig</b>	o <sub>F</sub> .	psig	o <sub>F</sub> .	of Flow Hr.	
SI		-7:	1	1		1995					
2.		• 1 .		16		ETE	12			3 hrs.	
3.									17 11		
4.							<del></del>				
	FLOW CALCULATIONS    Coefficient   Pressure   Flow Temp.   Gravity   Compress.   Rate of Flow										
No.	1 ,			<del>,</del>		tor	<b>Factor</b>	Factor Factor Q-MCFPD			
	(24-Hour) $$		/ h <sub>w</sub> p <sub>f</sub>	h <sub>w</sub> p <sub>f</sub> psia			.9258				
2.				867	.988		13230	1.076			
3.											
4. 5.	<del> </del>						·				
PRESSURE CALCULATIONS											
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid											
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid P <sub>c</sub> 1907 P <sub>c</sub> 3,637											
П	$P_{\mathbf{W}}$	ာ		,2	, ,	2 2	<b>5</b> 0	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>		-1 P	
No.	Pt (psia)	$P_{\mathbf{t}}^2$	F <sub>c</sub> Q	$(F_cQ)^2$	(1	(cQ) <sup>2</sup> L-e <sup>-s</sup> )	$P_{\mathbf{w}}^2$	Pc-Pw		al. $\frac{P_{w}}{P_{c}}$	
1.	224	50.16	24.4	2 596.3	16	8.8	219.0	3418		<b>810</b>	
1. 2. 3. 4. 5.											
3.			+								
5.											
Absolute Potential: 2,719 MCFPD; n .75											
ADDRESS											
AGENT and TITLE Material											
WITNESSEDCOMPANY											
REMARKS											
	SEP 3 1964										
	OIL COM. COM										

## 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<sub>w</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .