Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	BASIN	DAKOT	A	Fo	Formation DAKOTA				County San Juan			
	ialX											
								ld Well No. 1				
Unit G Sec. 5 Twp. 29 N Rge. 11 W Purchaser El Paso Natural Gas Co.												
	ng 4-1/2" W											
	ing <b>2-3/8"</b> W											
Gas Pay: From 6437 To 6546 L 6525 xG .67 -GL 4371.7 Bar.Press. 12.0  Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual												
Prod	lucing Thru:	Cas	ing		Tu	bing	Sing	lype we gle-Brade	nhead-G.	G. or C	.O. Dual	
Date	e of Complet	ion:			Packe	r		Reservo	ir Temp			
						OBSERV	ED DATA					
Test	ed Through	PON	<u>(xxx)</u>	Choke)	(MEXICE)				Туре Тар	s		
	<del></del>		low Da	·+ ·›			Tubing	Data	Casing D	ata		
<del></del>	(Prover) (Chol		ke)	Press.	s. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
No.	(Line) Size	(Arrive	KROCK	neig	h				psig			
SI	2176	51					2092		2095		7 Days	
1.		3/4	H	267		76	267	76	934		3 Hrs.	
2.										I		
3.												
4.										<u> </u>		
5.						<u> </u>		<u> </u>		<u></u>	<u></u>	
				•								
						FLOW CAL	CULATION	<u>s</u>				
	Coefficient				ressure	Flow	Temp.	Gravity	Compre	ss.	Rate of Flow	
No.						Fac	tor	Factor	Facto	r	Q-MCFPD	
	$(24-Hour)$ $\sqrt{h_{WP}}$			Pf	psia	F	't	F <sub>g</sub> _	Compress. Factor F <sub>pv</sub>		<b>@</b> 15.025 psia	
<del></del>			279		.9850		.9463	1.02				
1. 2.	12,3650					<u> </u>	<del></del>	7-7-20				
<del>~•</del>												
7.												
3. 4. 5.												
			L		PF	ESSURE C	CALCULATI	ons				
as I	Liquid Hydro	carbor	n Ratio	0		cf/bbl.	•				arator Gas	
Fravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid_										wing Fluid		
		•	(	1-е <sup>-5</sup> )			m;	Pc	2107	_P2	4439.4	
-								$P_{W}$	946	P <sub>w</sub> 2	894.9	
									<del></del>	- ``		
	$P_{\mathbf{w}}$	_:	2   _		/m a > 2	2 /.	2	n o	$P_c^2 - P_w^2$		al. P.	
No.		Pi	E F	cQ	$(F_cQ)^2$	(1	$(c_0)^2$	$P_{\mathbf{w}}^2$	Pc_Pw	1		
	Pt (psia)	<u> </u>					r_e _/		-		γι	
1.								894.9	3544.5	2	.448	
2.		<del> </del>						····	<del> </del>	-		
3.		<del> </del>						المساوات كراب أن فيسمن		<del>                                     </del>		
4.		<del> </del>								A. Marian	Photo Control of the	
5•		<del></del>					1		<del></del>	TO THE	180	
Absolute Potential: 3.906 MCFPD; n75												
COMPANY Beta Development Co. ADDRESS 234 Petr. Club Plaza, Farmington, New Mexico												
	RESS	23	4 Petr	<u>Club</u>	Plaza,	Farming	ton. New	Mexico	<u> </u>	16.1	519h4 - 1	
ACENT and TITLE Common I Moffman Production Engineer												
WITNESSED H. McAnally COMPANY El Paso Natural Gas Co.												
COM	PANY	El	Paso	Natura	1 Gas C	0	MARKS	Topol, Aug y - Print, 24 s. Colombia	•	China C	151.	
						유비	PIA H K O			•	Ar .	

## 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 I Actual rate of flow at end of flow period at W. H. working pressure  $(P_W)$ . MCF/da. @ 15.025 psia and 600 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- FnvI Supercompressability factor.
- n I Slope of back pressure curve.

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