## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool .	Eumont	<b>Euront</b> F			Formation Queen					<u> </u>		
	al											
Company Stelly Oil Co.					Lease Baker WEW				1 No		2	
Unit	_ <b>K</b> Se	ec. <u>10</u>	vqwT	228Rg	e <u>37</u> &_	Purch	aser	iorthern	Natural			
Casin	g 700 W	t•20#	I.D	6.456 Se	t at 357	<b>Of</b> Per	f. 343	101	To 34	<del>201</del>	,	
<b>Tubin</b>	g 2-3/8" W	t - h - 7#	I.D. <u>1</u>	<b>995</b> Se	t at <u>367</u>	Per	·f •	21	To	36351		
Gas P	ay: From	4301	To 34901	L3L	30x	G_0.675		115	Bar.Pre	:55	13.2	
	• •	0	<b>_</b>	m.,	hina		Time We	11 <b>6</b> -0	Desail			
Date	cing Thru: of Complet:	ion:_ <b>2</b> -	1-54	Packe	r_357	O Sing	gle-Brade _Reservo	nhead-G. ir Temp.	G. or	r•U• 1		
	-	<u> </u>			OBSERV.							
Tested Through (Prover) (Chake) (Meter) Type Taps										<del></del>		
		F1	ow Data			Tubing		Casing	Data	T -	Duration	
No.	(Prover)	(Chok (Orifi	e) Pres ce)	ss. Diff.	Temp.	i .		Press.	l l	1	of Flow	
	Size	Siz	e psi	ig h <sub>w</sub>	°F.	ps <b>i</b> g	°F.	psig	<sup>⊃</sup> F•	<b> </b>	Hr.	
SI					/=-			499.7	-	┼	69	
1. 2.	2" 2"	5/1/ 3/81			67 72			458.2 437.0			3	
₹• 3•	2"	7/1			72			411.0		Ţ	_3	
4. 5.	2m	1/2			69			383.7	<del></del>	<del>├</del>	<u>3</u> 20	
<u>5. !</u>		1/2	363		74		<u>.                                    </u>	364.8				
	Coeffici	Coefficient			FLOW CALCULATION Pressure Flow Temp.			Gravity Compre			ss. Rate of Flow	
No.						tor	Factor	Factor		Q-MCFPD @ 15.025 psia		
	(24-Hou	r)	/ hwpf	psia	Ft		Fg					
1.	2.1577			471-4	0.99		0.9427					
	3.0691			449.8		0.9887		1.0				
3. 1.	4.3997			423.7 305.9	0.99		# _	1.0			126	
4. 5.	5.5233 5.5233			377.0		68		1.0	- <del></del>	2011		
as Li	iquid Hydro	carbon	Ratio	PF	cf/bbl.		Spec	ific Grav	ity Sep	arato	r Gas	
ravity of Liquid Hydrocarbons (1-e-s) 0.147										owing Fluid		
C	0.707		(	s)0.14 <sup>1</sup>	7	-	· c	512.9	0			
No.	Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	2 (1	F <sub>c</sub> Q) <sup>2</sup> L-e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>	C	al. P <sub>w</sub>	Pw Pc	
1.	171.L	222.2	0.707	7 0.50		074	222.3	40.8	474	5	0.92	
2.	450.2	202.7	0.95	0.90		133	202.8	60.3	450.		0.88	
	424-4	180-1	1.282			242	180.3	105.3	397	- 1	0.83	
	396.9 378.0	157.5	1.504			333	157.8	119.9	378		0.74	
Abso	Lute Potent	cial:	1400		-	n_0.794				*	- <del>- • •</del>	
COMPA ADDRI	RIVI S	celly 0	Il Co.									
ADDRESS Box 38 (Hobbs) Nr. E. Aob  AGENT and TITLE SIGNED H. E. Aob  Dist. Supt.												
	ESSED		None								1	
COMP	ANI				RE	MARKS	<del></del>				7/1	
											/,	

## 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.
- PwT 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.
- $h_{\mathbf{W}}^{-}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub>- 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  $P_{\rm t}$ .