## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Eumon	t	F	ormation_	Queen			_County	Lea	· <del></del>
Initial X									
Company W. K	I	Lease Cooper F-2			Wel	l No	2		
Unit <b>D</b>	Sec. <u>3</u>	Twp. 20	Rge	. 37	Purc	haser	None	<u> </u>	
Casing 7"	vt <b>20#</b>	I.D. 6.4	. <b>56</b> Set	at_368	<b>10</b> Pe	rf. 3521		To 35	92
Tubing 2-7/8" V	vt. 6.5	_I.D.,	Set	at	<b>60</b> Pe	rf		То	
Gas Pay: From	<b>3521</b> To	3592	L 352	<u> </u>	G650		2289	Bar.Pre	ess. 13.2
Producing Thru	: Casing	X	Tub	ing	AUSTER	Type We	11 G. O.	Dual	
Producing Thru:  Date of Complet	tion: 10-2	9-63	Packer	36	OO Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or (	G.O. Dual
					ED DATA				
Tested Through	(Prover)	(Choke)	(Meter)				Type Tap	s	
	Flow	Data			Tubing	Dat a	Casing D	12 t 2	·
Prover)	T 4610Xe	Press	. Diff.	Temp.	Press	Temp.	Casing D	Temp.	Duration
No. (Line)	1 ( ^-: 6:	<b>Y</b> 1	1 1			•	psig	1	A # 177 AT #
SI	5126	here	W 11W	r •	barg	1.	556		
1. 12 x 1/4	<del> </del>	92	<del> </del>	82			536	<del> </del>	72
2 2 x 7/16		89		70			486		3
3. 2 x 1/2 4. 2 x 5/8		87		54			448	<u> </u>	3
4.  2 x 5/8 5.  2 x 5/8		60		52 60			427 385	<del> </del>	24
). 12 2 1/0	L	55	<u> </u>			<u> </u>	707	ļ	<u> </u>
			_ F	LOW CAL	CULATION	S			
Coefficient Pre			ressure				avity Compress. Rate of Flow actor Factor Q-MCFPD $F_g$ @ 15.025 psia		
No. $(24-Hour)$ $\sqrt{h_v}$					tor	Factor	or Factor		Q-MCFPD @ 15.025 psia
					t		Fpv		
1. 1.4030			05.2	.9795		.9608			138.9
2. <b>4.3997</b> 3. <b>5.5233</b>			02.2	.9905 L.0058		.9608 .9608			427.8
4. 8.3555			73.2	1.0078		9608			592.2
3. 5.5233 4. 8.3555 5. 8.3555				.0000		.9608			547.5
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  Fc									
No. Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	1 (1	c <sup>Q)2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2.	$P_c^2 - P_w^2$	Ca	P <sub>W</sub> P <sub>C</sub>
1. 349.2 2. 499.2	301.6	74.8		seglig-	YEAT	301.6 249.2		<del></del>	22.4 74.8
3. 461.2		111.3				212.7	<del></del>	<del> </del>	111.3
4. 440.2	193.8	130.2				193.8			130.2
5. 398.2	158,6	165.4				158.6			165.4
ADDRESS BOX AGENT and TITLE	K. Byrom	bs, N. !	200	,Produ	n 59-5 etien Fo		7 3 01 1	5H .83	
COMPANY W. K. Byron									
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 I Actual rate of flow at end of flow period at W. H. working pressure ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- Ft Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\mathbf{t}}$ .

HOBBS OFFICE O. C. C.