## NEW MEXICO OIL CONSERVATION COMMISSION

MAIN OFFICE OCC

HS1-37 17 17, 200

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS  Revised 12-1-5  Pool EURONI G: 13  Formation QUEEN County LEA												
				Special								
Con	mpany Vell.	UIL (	Jompa	n <b>y</b>		Lease	State	A-20	Wel	1 No	1	
Uni	it <b>1</b> I	Sec	C Tw	p2	20 <b>-</b> 3 Re	ge. <u>37</u>	-上 Pur	chaser	l Faso N	ateral	l Gas Co	
Cas	Casing 52" Wt. 170 I.D. 4.892 Set at 3631 Perf. 3415 To 3510											
Tub	Tubing 2" Wt. 47 I.D. 1,995 Set at 3612 Perf. To											
Gas	Gas Pay: From 3415 To 3510 L 3415 xG 0.680 -GL 2322 Bar.Press. 13.2											
Dat	educing Thru	tion•	11-1	7-54	Packe	r 36	, Si	ngle-Brade	enhead-G.	G. or (	G.O. Dual	
Day	of Complete	· · · · · · · · · · · · · · · · · · ·		1	racke				orr remb•		<del></del>	
						OBSERV	ÆD DATA					
Tes	ted Through	(Prov	<u>er) (</u>	<del>3hoke</del>	(Meter)	•			Type Tap	s Flar	ige	
Flow Data Tubing Dat								g Data	a Casing Data			
No.	(Prover)	over) - (Che		Press	Diff.	Temp.	Press.	. Temp.	Press.	Temp.	Duration	
	Size	Si	ze	psig	g h <sub>w</sub>	o <sub>F</sub> .	psig	°F.	psig	°F∙	of Flow Hr.	
<u>SI</u>		1 7 0		5.0	0.2	2.2	Pack	er	993.00		72-Hr S. I.	
2.	), 11 ), 11	1.2			.d 1 <i>4.41</i> 0 31.36		<del> </del> -	<del></del>	906.0		24-Hr 24-Hr	
3. 4.	7, 11	1.2			0 51 84			1	791.0	<del>                                     </del>	24-Hr	
4.	7, 11	1.2			0 60.0				755.0		21-Hr	
5•	<u> </u>					<u> </u>	<u></u>	1				
						FLOW CAL	CUL <b>AT</b> TO	NS				
	Coefficient						ow Temp. Gravity		Compress.		Rate of Flow	
No.	(24-Hour) -		7/h r	√h <sub>w</sub> p <sub>f</sub> psia		Factor		Factor	Factor		Q-MCFPD @ 15.025 psia	
<del>-</del> -			<del>'</del>	<del></del>		<del></del>		Fg	Fpv			
1. 2. 3. 4.	9.643 9.643	9.643			576.2 577.2			0.9393 0.9393	1.06		<u> </u>	
<u>3</u> 。		9.643			570.2	1.000		0.9393	1.06		1663	
4.	9.043				513.2	1.000			1.072		1862	
<u>5.                                    </u>												
	Liquid Hydro ity of Liqui 1.812		ocarbo			cf/bbl.deg.	ALCULAT:	Sp <b>eci</b> Speci		ty_Flow	rator Gas ring Fluid D12.4	
No.	Pt (psia)	Pt <sup>2</sup>			(F <sub>c</sub> Q) <sup>2</sup>	(1	c <sup>Q</sup> ) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$		Pw Pc	
2.	919.2	844 S 738 2	<del>}   }-</del>	598 577	2.554			84.3	157.1	919	4 91.4	
3.	859.2 801.2	738 2 646 7		357	5.555 9.078	0.		739.0	273.4	859		
4.	304.2 758.2	590 . 1		013 3 <b>7</b> 3	9.078 11.38			648.0 591.8	364.4 420.6	205		
5.			1	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	-+-+-	<del></del>	1710.	HEULU	1 103	· · · · · · · · · · · · · · · · · · ·	
COMI ADDI AGEN		W Oil x 3986	3,79 Compa 5, Ode wil	any	T'exas Fr/W	MCFPD;						
	PANY					<del></del>			<del></del>			
- <b>-</b> 11						REM	ARKS	·			<del></del> -	

## 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.
- Pc= 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.
- F<sub>nv</sub> Supercompressability factor.
- n I 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  $P_t$ .