## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	CROSBY D	EVONIAN	F	ormation	DEVON:	<b>LAN</b>	: ,	_County	LEA COL	NTT	
Init	ial 🗶	Ar	nual		Speci	ial		_Date of	Test_1-	-15/1-19-62	
Comp	any Amerad	a Petrole	nm Corpe	ration	Lease(	C. C. Ca	gle "C"	Wel	l No	3	
Unit 0 Sec. 3 Twp. 26 Rge. 37 Purchaser El Pase Natural Gas Company											
Casi.	ng <b>5}</b> W	t. <u>17</u>	_I.D	Se	t at_88	<b>24</b> Per	f. 87	i8	То	8811	
Tubi	ng <b>2</b> 0 W	t. 4.7	_I.D	Se	t at _ <b>85</b> '	<b>76</b> Per	f. Open	End	То		
	Pay: From_					G. mix					
Prod	ucing Thru:	Casing		Tu	bing	<u>x</u>	Type We	11 <b>81</b>	gle	2 O Duni	
Date	of Complet	ion: <b>9</b> .	-29-61	Packe	r <b>8003</b>	Sing	gre-Brade Reservo	ennead-G. oir Temp	G. or	r.O. Dual	
					OBSERVE	ED DATA					
Test	ed Through	(Doorer)	(Oboke)	(Meter)				Type Tap	os		
	(P)		Data	. Diff.	Temp.	Tubing Press.		Casing D	ata Temp.	Duration	
No.	(Line)	(Orifice	:)		1				o <sub>F</sub> .	of Flow	
SI	Size	Size	psig	h <sub>w</sub>	°F•	psig <b>2521</b>	· · ·	psig	-F•	72	
$\frac{S1}{1.}$	11	2,250	658	10.24	80	2340			1	24	
2.	11	N	631	23.04	70	2260				24	
3. 4.	11	i n	590	33.64 47.61	53	21.85 2088			<del> </del>	24	
<del>5.</del> +		<u> </u>		71.00							
No.	Coefficient (24-Hour)		h <sub>w</sub> p <sub>f</sub>		FLOW CALC ssure Flow T Fact sia F <sub>t</sub>		Gravity	Compre Facto Fpv		Rate of Flow Q-MCFPD @ 15.025 psia	
1.	33.10		2.90	671.2	0.9413		0.9721	1.057		2,767	
2.				644.2 620.2	0.9905		<del>"</del>	1.05		4,106 4,903	
3. 4. 5.				603.2	1,0064		*			4 5,840	
	iquid Hydro ty of Liqui <b>9.936</b>	carbon Ra	atio <u>l</u> arbons _(1-e <sup>-5</sup> )		essure carefolder deg.		Speci Speci	ific Gravi ific Gravi <b>2534.2</b>	ity Flow	arator Gas <u>.635</u> wing Fluid <b>6422,2</b>	
No.	P <sub>w</sub>	Pt <sup>2</sup>	$F_cQ$	(F <sub>c</sub> Q) <sup>2</sup>	(F.	c <sup>Q)<sup>2</sup></sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca 2404	al. Pw Pw Pc	
<u>;</u>	2353.2	5537.5	27.49	755.7	241.		5779.3	722.0	2404	.0 94.8	
2 <b>.</b> 3.	2273.2	5167.4 4832.1	48.72	1665 2374	532, 759.		5700.2 5591.8	830.4	2364	7 93.3	
4.	2101.2	4415.0	58.03	3367	1077		54,92.0	930.2	2343		
COMP ADDR AGEN WITN COMP	PANY Amer PESS Draw T and TITLE PANY EJ	B. Murre Paso Nat	oleum Cor onument, y, Bobby ural Gas	G. Boas Company	co \L REM	A. E.		District	, Engine	per	
				_		(930.2	)				

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{w}$  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.
- $h_{\mathbf{w}}$  Differential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{\text{DV}}$  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  $P_{\rm t}$ .