## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Paa	] Poe4∞	_Daboto		Powert -	on De	ikn+•	1		Count	San I	เมลท		
	·			_					County San Juan				
Initial Annual Special Date of Test 10-21-64												_	
Company Walter Duncan Oil Properties Lease Skelly State Well No. 1													
Unit Sec. 16 Twp. 27 Rge. 9 Purchaser													
Casing 42 Wt. 10.5# I.D. Set at 6788 Perf. 6514 To 6610													
Tub	Tubing 2 3/8"CDVt. 4.7# I.D. Set at 6583 Perf. Open End To												
Gas	Pay: From_	6514	To 6610	L		х	G <u>.65</u> es	stGL	I	Bar.Pre	88		
Pro	Producing Thru: Casing Tubing X Type Well Single Gas												
	Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 10-8-64 Packer None Reservoir Temp.												
	OBSERVED DATA												
Tested Through (Prover) (Choke) (Meter)  Type Taps													
	(Prover)		ow Data	ta Press. Diff.		Tub Temp. Pre		Data Temp.	Casing Data Press. Tem		Duration		
No.	(Line)	(Orific	ce)					1		OF.	of I	low	
SI	Size	Size	e ps	ig h	<u>-                                    </u>	F.	2051	°F.	psig 2029		Hr	j.	
1.		27:00			1		2071						
2. 3.		3/4"	2	75	63				745		3 Hrs		
4. 5.										·			
<u> </u>													
											Rate of F	low	
No.	(24-Hour) 7/		h <sub>w</sub> p <sub>f</sub>	wp <sub>f</sub> psia		Factor Ft		Factor F <sub>g</sub>	Factor F <sub>pv</sub>		@ 15.025 psia		
1.		M- T	-					- P.					
1. 2. 3. 4. 5.	12.365			287		•9971		.9608 1.			3498		
4. 5.													
	· · · · · · · · · · · · · · · · · · ·				DDFSSI	RF C	ALCUI ATI	ONS				· · · · · · · · ·	
		, ,	D. 4.1						n:	0			
	Liquid Hydro ity of Liqui		carbons		cf/1			Speci	fic Gravit	ty Flow	rator Gas_ ring Fluid_		
`c			(1-e <sup>=</sup>	s)				<sup>Р</sup> с	2063	_Pc <b>4</b>	255.969		
<u> </u>	$P_{\mathbf{w}}$	····	<del>                                     </del>	<del></del>			<del></del>			<del> </del>		1	
No.		$P_{\mathbf{t}}^2$	F <sub>c</sub> Q	(F <sub>c</sub> Q	)2	(F.	$\begin{pmatrix} cQ \end{pmatrix}^2 \\ -e^{-s} \end{pmatrix}$	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	Ca	Pw Pc		
1.	Pt (psia)					(1	-e °)				W Pc		
1. 2. 3. 4.	757						5	73.049	3682,920		1.1	556	
4.										1			
	olute Potent	ial:	3899	<del></del>	MC]	FPD:	n = •75	1.1145	j	.L	<u> </u>		
COM	PANY	Walter	Duncan (	Mil Prop	rties				<del></del>		·		
AGE	NT and TITLE	Ongina	durance al signed	by T. A.	ado Duga <b>n</b>								
	NESSED PANY										· · · · · · · · · · · · · · · · · · ·		
						REM	ARKS				M		
									/Kil		المسا		
									ÇCT		A		
									/oir	C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3		
										Dia.			

## 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 T Actual rate of flow at end of flow period at W. H. working pressure  $(P_W)$ . MCF/da. @ 15.025 psia and 60° F.
- P<sub>c</sub>= 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.
- h. Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{\rm t}$ .