## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

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Pool	Euro	ont							Lea	
	nitial Annual									
Company Shell Oil										
										Company
Tubing 2" Wt. 4.7# I.D. 1.										
										s. 13,2
	ucing Thru:									
Date	of Complet	ion: 9-	20-53	Packer	365	Sin <sub>l</sub>	gle-Brade Reservo	nhead-G. ( ir Temp	G. or G.	O. Dual
Test	ed Through			(Meter)		ED DATA		Type Tap		
	(Presser	Flow (Shake)	Data Press.	Diff.	Temp.	Tubing Press.	Data Temp.	Casing Dares.	Temp.	Duration of Flow Hr.
No.	(Line) Size	(Orifice Size	) psig	h <sub>w</sub>	o <sub>F</sub> .	psig	°F.	psig	∍ <sub>F</sub> .	of Flow Hr.
SI						722				72
1. 2.	4	1.500	528	1.00 2.56	77 78	674 620				24 24
3. 4. 5.										
No.					FLOW CALCULATION Pessure Flow Temp. Factor psia Ft		S Gravity Factor F <sub>g</sub>	Factor		Rate of Flow Q-MCFPD 15.025 psia
1.	13.99		1.89 479.2		.9840		.9325 .9325	1.05	2	295.6 504.5
2. 3.	13.99		.22	22 541,2		,9831		1.05		304.3
1. 2. 3. 4. 5.										
ravi	iquid Hydroty of Liqui	id Hydroca	rbons 📜	ry one ,168	cf/bbl.deg	• - 	Speci Speci	ific Gravi	ty Flow	
No.	Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>		F <sub>c</sub> Q) <sup>2</sup> 1-e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca P.	w Pc
1. 2.	687.2 633.2	472.2	2.939 5.013	8,636 25,130		.22	473.6 405.1	135.6	636	
3. 4.										
ADDI AGE	olute Poten PANY_ RESS_ NT and TITL NESSED_	Shel P. 0 E A. L	Box 185	B Rosses - Gas T	all, New	Mexico (1. J. C	se eller			
	PANY	J. R R1 P	neo Natur	al Gas	Company De	MADRO				
	Unable to	obtain b	ut two fl	ow rate	s due to	compres	sor failu	re; there	fore, th	e pr <b>eviou</b> e

## 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 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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.
- $F_{g}$  Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub>- Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\mathbf{W}}$  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  $P_{\mathbf{t}}$ .

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