NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122 Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota					rmation_	Dakot	ta	County San Juan			
Ini	tial	Х	Annua	1		Sp <b>ec</b> :	ial		_Date of	Test_9	-23-64
Com	pany Beta D	evel opm	ent C	0.	I	ease_F	ederal Pu	bco	We:	11 No	1
Uni	t <u>M</u> S	ec. <u>14</u>	Twp	30	Rge	. 11	Purch	aserE	l Paso Ni	etral Ga	s Co.
Cas	ing 🚸 W	t. 10.5	<u>0</u> 1.	D. 4.0	52Set	at7025	Per	f. 680	1	To 7	010
								*			n d
Gas	Pay: From_	6801	To	70 <u>10</u>	_L_ 700	)7xd	G <u>670</u>	GL	4694.5	_Bar.Pre	12.0
Pro	ducing Thru:	Casi	ng		Tul	oing	x	_Type We	11	Single-	Gas 1.0. Dual
Dat	e of Complet	ion:	9-14-	64	Packer	•	Sing	le-Brade _Reservo	nhe <b>sd-G.</b> ir <b>Temp.</b>	G. or (	.0. Dual
							ED DATA	-			
Tested Through (Choke) (Choke) (Choke) (Type Taps											
Flow Data							Tubing Data		Casing Data		D
No.	(Prover) (Line)	(Chok	E)	Press.	Diff	Temp. op	Press.	Temap.	Press.	Temp.	Duration of Flow Hr.
SI	2176	212	-	barg	W <sup>11</sup>	r e	2461	F 4	2467		8 Day
1.		3/4"		641		90	641	90	1655		3 hr.
2 <b>.</b> 3.							•			4	
4.											
5.											
					1	RION CATA	CULATIONS	3			
No.	(24-Hour) √ h <sub>w</sub> p <sub>f</sub>		Pr	2000		79	Coomit	Compress. Factor		Rate of Flow Q-MCFPD @ 15.025 psia	
			f	psia	Ft		Fg			15.025 psia	
					553	.972	3	.9463	1.05	2	7867
1.	12.3650						1		1		
2.	12,3650										
2. 3. 4.	12.3650										
2. 3. 4. 5.					PRI		ALCULATIO				
2. 3. 4. 5. Gas	Liquid Hydro ity of Liqui		carbo	ns	PRI	essure control		Speci Speci	fic Grav	ity Flor	arator Gas wing Fluid
2. 3. 4. 5. Gas	Liquid Hydro		carbo		PRI	cf/bbl.		Speci Speci Pc	fic Grav 2 <b>479</b>	ity Flor	wing Fluid 6145.4
2. 3. 4. 5. Gas	Liquid Hydro ity of Liqui P <sub>w</sub>	d Hydro	carbo	ns _e <sup>-s</sup> }	PRI	cf/bbl.deg.		Speci Speci Pc	fic Grav	ity Flor	wing Fluid6145.4 2778.8
2. 3. 4. 5.  Gas Grav Fc	Liquid Hydro ity of Liqui		carbo	ns _e <sup>-s</sup> }	PRI	cf/bbl.deg.		Speci Speci Pc Pw	fic Grav 2479 1667 P <sub>C</sub> -P <sub>W</sub>	ity Flor	wing Fluid 6145.4 2778.8
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2. 3. 4. 5.  Gas Grav F.c. No. 1. 2. 3. 4. 5. Abs COM	Liquid Hydro ity of Liqui  Pw  Pt (psia)  olute Potent PANY	d Hydro	F <sub>c</sub>	nse=s)_	PRI (F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.  (F (1 MCFPD;	n75	Speci Speci Pc	fic Grav 2479 1667 P <sub>C</sub> -P <sub>W</sub>	ity Flor	wing Fluid 6145.4 2778.8
3. 4. 5.  Gas Grav Fc No. 1. 2. Abs COM ADD	Liquid Hydro ity of Liqui  Pw Pt (psia)  olute Potent PANY B RESS 2	Pt ial:_eta Dev	F <sub>c</sub>	nse^S)_ Q 12,352 ent Co b Plax	PRI (F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.  (F (1  MCFPD;	n75	Speci Speci Pc	fic Grav 2479 1667 P <sub>C</sub> -P <sub>W</sub>	ity Flor	wing Fluid 6145.4 2778.8
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## 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  $\equiv$  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.
- $P_c=72$  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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  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  $P_{\rm t}$ .