NEW MEXICO OIL CONSERVATION COMMISSION

3-OCC 1-EPMG Parrish 1-EPMG Kendrick 1-Skelly 2-J. C. Man Jr.

Form C-122

	1-D 2 -F		1	MULTI-	POINT BA	CK PRES	SSURE TE	ST FOR G	AS W	ELLS	F	levis	ed 12-1-55
ool	Basin	Dekota		Fo:	rmation_	Da	kota		c	ounty	San J	tuen '	
[nit	tial X Annual_			1	Special				Date of Test10/10/62				10/62
Comp	any South	est Pr	oducti	on Co.	I	ease	Davis	Federal	:	Well	No	1	
Jnit	LS	Sec24	Twp	. 26	N Rge	. 11	W Pur	chaser_	El	Paso Nat	tural G	ias C	Sepany
Casi	ng 5 1/2%	/t. 15.	50# I.	D. 4.9)50 Set	at	6338 F	erf	618	T	°	6241	
[ubi	ng 1 1/27	it. 2.	75# I.	D. 1.6	510 Set	at	6207 I	Perf	Oper	T		End	
	Pay: From												
	lucing Thru						¥	Type	Well	. G. (3. Dua	L	
)ate	e of Complet	cion:	9/6/6	52	Packer	r <u>617</u>	S:	ingle-Bra Reser	voir	· Temp	- OF G		
	•						VED DATA						
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										Casing Da	ıta	Ī	
	(Prover)	(Cho	ke)	Press.	Diff.	Temp.	Pres	s. Temp)• I	ress.	Temp.		Duration of Flow
No.	(Line) Size	Si	ze	psig	h _w	°F.	p si	g ^o F		psig	°F.		Hr.
SI 1.		3/4	4	269		74*	1683 269						7 days 3 hrs.
2.			·············						_				
3. 4. 5.												-	
No.	Coefficient				FLOW CALCULATION Pressure Flow Temp. Factor			1	Gravity Compress. Rate of Flow Factor Factor Q-MCFPD F F F F 15.025 psia				
	(24-Hour) √		$\sqrt{h_{\mathbf{w}}}$	Pf	psia	201	Ft	F _g		F _{pv}			3.335
1. 2.	12,3650				281	.986	<u> </u>	. 743					
3。													
<u>4.</u> 5.								<u> </u>		<u>.l</u>		L	· · · · · · · · · · · · · · · · · · ·
rav	Liquid Hydr ity of Liqu 16.46	iid Hyd:	rocarb	oonsl_e_s)		_cf/bb de	CALCUIA 1. g.	Sp Sp	ecif	ic Gravi ic Gravi 1702 695	ty Sep ty Flo	wing 28 9	or Gas fluid 6.8
No.	P _W	P	Pt F		(F _c Q) ²	2	$(F_cQ)^2$ (1-e ^{-s})	Pw	2	$P_c^2 - P_w^2$	0	Cal.	Pw Pc
1.	Pt (psia	78,	961	1,299	1,687		440	483,2	68	2413.6	695		.406
2. 3.													
<u>4.</u>													
Abs COI ADI	solute Pote			07 Pert	st Prod	Plaza.	Company Farming	.75 gton, Nev a Enginee	i Mea	deo	TEN A		
WI:	ENT and TIT INESSED	1.L		ent de	me merri					10	EIV	D	\
CO	MPANY					F	REMARKS			$ \int_{\mathbb{R}^{n}} dg$	T151 CON.	COM	

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 I Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- $h_{\mathbf{W}}$ Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- F_{t} Flowing temperature correction factor.
- F_{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 $P_{\rm t}$.