NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

file

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Pool BASIN DAKOTA				_FormationDAKOTA				County See Juan			
Init	ial	<u> </u>	_Annua	al		Spec	ial		_Date of 1	rest	3/6/64	
Comp	any <u>bot</u>	a Dev	elopme	nt Co.]	Lease	Davis Fe	deral "A"	Well	No	1	
Unit Sec Twp 30 H Rge Purchaser El Page Maturel Ges Co.												
Casi	ng <u>a 1/2-</u> W	t	<u>30</u> I	.D4.C	240 Set	t at	Per	f. 681	151	ľo	7022*	
Tubi	ng 2 / 8" W	t4	.70 I	.D1.5	Se	t at 69	97• Per	f. <u>O</u>	en	ľo	_End	
Gas Pay: From 6835 To 7022 L 6907 xG 67 -GL 687 Bar. Press. 12.0												
Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-3. G. or G.O. Dual												
Date of Completion: 2/21/64 Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Meter)												
Flow Data				ata			Tubing Data		Casing Data		<u>I</u>	
No.	(Prover) (Line)	(Chc		Press.	Diff.	-	Press.	-	Press.	ĺ	Duration of Flow	
	Size		ze	psig	h _w	°F•	psig	o _F ,	<u> </u>	°F.	Hr.	
SI		ļ <u>-</u> -,	7.00				2313		231B 1411	···	7 Day 3 Hrs.	
1. 2.			A**	423		79	423	79	4744		3 13 1	
3.												
4.												
5.		L		-	L	L			<u></u>	<u> </u>		
FLOW CALCULATIONS												
	Coeffici	Coefficient			Pressure Flow Fact						Rate of Flow Q-MCFPD @ 15.025 psia	
No.	(24-Hour) √ h _w p			t			Factor F _g					
_ _+	(24-Hour)		V "wPf		Pola							
1. 2.	12.3650				435	91	922	.9463	1.043		5,214	
3.												
4.												
5.			L									
					PR	ESSURE C	ALCUIATI	ons				
Gas I	Liquid Hydro	carbo	n Rati	.o		cf/bbl.					arator Gas	
	ity of Liqui			ons		deg.					wing Fluid	
Fc			(1-e ^{-s})			-	•	2330		5426.9	
								P.,	1423	Pw ² _	2024.9	
	$P_{\mathbf{W}}$		2 _		(= 0)2	2 /-	. 0,2	n o	P _c ² P _w ²	0.	al. Pw	
No.	Pt (psia)	P	t F	'c ^Q	$(F_cQ)^2$	(1)	$(c^{Q})^{2}$	$P_{\mathbf{w}}^2$	Pc"Pw		$\begin{array}{c c} P_{\mathbf{w}} & P_{\mathbf{c}} \\ P_{\mathbf{w}} & P_{\mathbf{c}} \end{array}$	
$\frac{1}{1}$	If (bara)			 +		(1		2024.9	3404		163	
1. 2.												
3. 4.									 	 		
4. 5.									 	1		
		_		.404 		rior FD;	·- <u>•/3</u>			ALIVA		
ADD	RESS 21	le Bat	- Clu	ent Go. b Plaza	. Farmi	ngton. N	ew Mexic	9	101	1111		
	NT and TITLE	<u> </u>	_G.L.	Hoffma	n, Prod	wetion E	ngineer		\tu	-U-'	1001	
WITNESSED Herman McAnally COMPANY FI Page Matural Gas Co.												
JOPI			<u> </u>	459 641	WEEL U	। संद	MARKS				1 A 8	

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- $P_c=72$ 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.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- FnvI 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 $P_{\rm t}$.