NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

MODII-FOINI BACK PRESSURE 1251 FOR GAS WELLS													
Poo	ool Fulcher-Kutz Fo					ormation Pictured Cliffs				County San Juan			
Initial X Annual												7-65	
Company Thomas A. Dugan Lease Claude Smith Well No. 1													
Unit M Sec. 8 Twp. 29N Rge. 11W Purchaser_													
Casing 428 Wt. 9.5 I.D. Set at 1983 Perf. 1877 To 1887													
Tubing 1 1/4" Wt. 2.4 I.D. Set at 1863 Perf. Open Ended To													
Gas Pay: From 1877 To 1887 L xG 0.620 -GL Bar.Press.													
Pro	ducing Thru:	Cas	sing		Tu	bing	X	Type We	11 Sin	cle Gas			
Dat	Producing Thru: Casing Tubing X Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 5-4-65 Packer - Reservoir Temp												
	OBSERVED DATA												
Tested Through (Choke) (Meter) Type Taps													
		F	low Da	ata		 1	Tubing	Data	Casing Data				
No.	(Prover) No. (Line)		(Choke)			Temp.		Temp.	Press.	Тещо.	Duration of Flow		
			ize		hw	°F.	psig	o _F .	psig	°F.		Hr.	
SI							374		374				
1. 2.		-			 		<u> </u>				- -		
3.	2#	0.7	0.750		9	65	-		276			3 Hrs.	
<u>4.</u> 5.		 		 -				 	<u> </u>		 		
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow										of Flow		
No.			<u> </u>		Factor		Factor	Factor		Q-MCFPD			
- -	(24-Hour) \[√ n _w r	n _w p _f psia		Ft		Fg	Fpv		● 15.025 psia		
1. 2.													
3.	12.3650			75		0.9952		0.9837	1,000		908		
4. 5.							· · · · · · · · · · · · · · · · · · ·			 			
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid Fc(1-e^{-8})													
No.	P _w	Pt	F	,Q	$(F_cQ)^2$	(F (1	cQ) ² -e ^{-s})	P _w 2	P _c -P _w ²	Ca H	ıl.	P _w P _c	
1. 2.													
3.	288		士						66052			2.2557	
4. 5.										 			
Absolute Potential: 1814 MCFPD; n85 1.998 COMPANY Thomas A. Dugan ADDRESS Box 234, Farmington, New Mexico AGENT and TITLE Original signed by T. A. Dugan													
WITNESSED													
COM	PANY					ਘਾਸ਼ਾੜ	ARKS	 		Uro.	1 104	5-1-	
	-					ima	1m2D			MAY ?	Off. C	om.	

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_W) . MCF/da. @ 15.025 psia and 60° 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
- P_f Meter pressure, psia.

- $h_{\mathbf{W}}^{\perp}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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 $P_{\mathbf{t}}$.