NEW MEXICO OIL CONSERVATION COMMISSION

1-Skelly 1-WD

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2-F

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-											
Pool Basin Dakota			Formation Dakota				County San Juan				
Initial X Annual Special Date of Test								8/9/62			
Com	pany Southw	est Produ	action C	ompany	Lease	Platero	Navajo	Wel	1 No	2	
Unit M Sec.13 Twp. 26N Rge. 11W Purchaser El Pase Natural Gas Company											
Casing 41 Wt. 10.50# I.D. 4.052 Set at 6415 Perf. 6250 To 6376											
Tubing 12" Wt. 2.75# I.D. 1.610 Set at 6368 Perf. To 6368											
Gas Pay: From 6250 To 6376 L 6368 xG .67 _GL 4266.5 Bar.Press. 12.0											
Producing Thru: Casing Tubing X Type Well Single-Gas											
Date of Completion: 8/1/62 Packer Reservoir Temp.											
OBSERVED DATA											
Tested Through (YESKES) (Choke) (NEXXES) Type Taps											
					· 1	Tubána	Data	Casing D			
	(Prover)	(Choke)	Data Pres	s. Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration	
No.	(Line) Size	I I Charles to the con-	2			N .		psig	i	I OI PIOW	
SI			1	- W		1604		1951		7-Days	
1.		3/4*	20	2	79	202		826		3eHr.	
2 .								 	 		
4.							<u> </u>				
5.							<u></u>	L	<u> </u>		
FLOW CALCULATIONS											
	Coefficient Pressure Flow Temp.						Gravity Compress. Rate of Flow				
No.			h _w p _f	pe psia		tor t	Factor Fg	Facto F _{pv}	r	Q-MCFPD @ 15.025 psia	
1.	12.3650		WP.I.	214		-	•9463	1.020		2.508	
2.	12.0000				.9822						
3.											
4. 5.											
			· · · · · · · · · · · · · · · · · · ·	DD.	ESSURE C	A ((2)11 (A 17)	ONS				
	Liquid Hydro				cf/bbl. deg.					arator Gas wing Fluid	
Grav F _c	ity of Liqui	u nyuroca	(1-e ⁻⁸)	ueg.	_	P _c		P _c 3	853.3	
P _w 838 P_2 702.2											
	$P_{\mathbf{w}}$				1	7		2 2			
No.		$P_{\mathbf{t}}^2$	F_c^Q	$(F_cQ)^2$	(F	$(c^{Q})^{2}$ $-e^{-s}$	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	1	al. Pw Pw Pc	
1.	Pt (psia)			 			702.2	3151.1	- 	P _w P _c 426	
2.											
3.								<u> </u>	- 		
4. 5.											
Absolute Potential: 2,914 MCFPD; n75											
COM	PANY South	west Pro	duction								
ADDRESS 207 Petr. Club Plaza, Farmington, New Mexico AGENT and TITLE G. L. Noffman, Production Engineer											
WITNESSED H. McAnally											
COM	PANY E	Pase Na	tural G	s Company	REM	ARKS	 1	Krnrı	<u> </u>	 	
NC1 6 1962											
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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 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.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If P_{W} cannot be taken because of manner of completion or condition of well, then P_{W} must be calculated by adding the pressure drop due to friction within the flow string to P_{+} .