1-MPNG Bill Parrish

1-WD

1-Sunray Mid-Cont. 1-Sinclair

1-D 2-F

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

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MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pc	Pool Basin Dakota Formation Dakota											
Initial X Annual Special									Date of Test8/1/61			
Company Southwest Production Company Lease Harkes Navajo Well No. 1											1	
Unit A Sec. 23 Twp. 26N Rge. 11W Purchaser El Paso Natural Gas Company												
Casing 42" Wt. 10.50			50 I.	I.D. 4.040 Set		t at 6	340 _P	erf	6224	_To	6244	
Tubing 13 Wt. 2.7 I.D. 1.610 Set at 6291 Perf. To 6291												
Gas Pay: From 6224 To 6244 L 6291 xG .67 -GL 4214.9 Bar.Press. 12.0												
Producing Thru: Casing Tubing X Type Well Single-Gas Date of Completion: Packer Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion:PackerReservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Motor) Type Taps												
		Flow Da		ata		Tubi		g Data			T	
No.	(Prover) (Line)	(Chok	ce) : .ce)	Press.	1			Temp.			i .	
T	Size			psig	h _w	°F.	psig	°F.	psig	°F.	of Flow Hr.	
SI		-					2000		2000		7 Day	
1. 2.		3/4"		211		_68	211	68	1280		3 Hr.	
<u>3.</u>								 		 		
<u>4.</u> <u>5.</u>		 										
		L						<u> </u>				
FLOW CALCULATIONS												
No.	Coeffici	Coefficient			Pressure		l'emp.	Gravity	Compress.		Rate of Flow	
	$(24-Hour)$ $\sqrt{h_W}$		h _w pf	or psia		Factor Ft		Factor F	Facto	Q-MCFPD @ 15.025 psia		
1.	12.3650			223		.9924		Fg •9463	F _{pv}		2,649	
1. 2. 3. 4.								17403	1.02	.3	2,049	
7.												
5.				+-								
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid C												
No.	P _w	$P_{\mathbf{t}}^2$	F _c Q		$(F_cQ)^2$	(F _e	⊋) ² e−s)	P _w 2	$P_c^2 - P_w^2$	Ca]	P.,	
1.	Pt (psia)					(1-				P.		
1. 2.								04B.1	2478.9		.642	
3.										ļ —		
4. 5.				-+-		+						
Absolute Potential: 3,825 MCFPD; n .75 COMPANY Southwest Production Company ADDRESS 207 Petr. Club Plaza, Farmington, New Mexico AGENT and TITLE George L. Hoffman, Production Foreman WITNESSED												
COMPANY												
						REMAI	RKS		OIL CO	1961 ON. CON ST. 3	/ a	

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.
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_f Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_g \square$ Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{nv} 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 $P_{\rm t}$.