3-OCC 1-EPNG 1-EPNG Bill Parrigh NEW MEXICO OIL CONSERVATION COMMISSION

i-WD 1-D 1-F

Form C-122 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	1	Basin 1	Dakota		F	ormation	Dakot	ta .		_County_	San J	uan	
					nnualSpecial								
												2	
Unit I Sec. 31 Twp. 27 N Rge. 11 W Purchaser El Paso Natural Gas Company													
Cas	ing	41 V	/t. 10	.50 I	.D4.0	040 Se	t at 631	1 8 P	erf. 61 9 8		То	6220	
Tubing 12 Wt.				.75 I	.D. 1.6	10 Set at 623		90 P	erf. Open	i	То	End	
Gas	Gas Pay: From 6198 To 6220 L 6230 xG .67 -GL 4174 Bar.Press. 12.0												
Producing Thru: Casing Tubing X Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual													
Date of Completion: 2/6/62 Packer Reservoir Temp.												G.O. Duai	
OBSERVED DATA													
Tested Through IXXXXX (Choke) (NXXXX)							•	Type Taps					
Flow Data								Tubing Data Casing Data					
No.		rover) Line)		oke) fice)		Diff.	· -	l	Temp.	Press.	_	of Flow	
		Size			psig	h _w	°F.	psig	o _F ,	psig	°F.		
SI 1.			3,	410	524	69	<u> </u>	2022 524	69	2022 1837	 	7 days	
2.													
3.			 		 						-		
<u>4.</u> 5.			 		 			-			† · · · · · ·		
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Fl											Rate of Flow	
No.							Factor		Factor Fact				
	(24-Hour)		ir)			psia .991				Pv			
2.	12,3650					536 .99		·	.9463	1.06	0	6.590	
3。													
4. 5.													
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid													
P_{c} $(1-e^{-s})$ P_{c} $P_{$													
No.		P _w F		F_c^2		$(F_cQ)^2$		(cQ) ² -e-s)	P _w 2	$P_c^2-P_w^2$	1	al. Pw Pw Pc	
1. 2.	- 0	/							3418.8	722.4	1:	90B	
2. 3.													
4.											1		
5•			L										
Absolute Potential: 24,416 MCFPD; n .75 COMPANY Southwest Production Company													
ADDRESS 207 Petr. Club Plaza, Farmington, New Mexico													
AGENT and TITLE George L. Hoffman, Production Engineer Witnessed													
COMPANY													
REMARKS / RILLIV L.													
MAR1 198											1952		
OIL COM. COM.												i i	
										\	Z Di	GT. 3	

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 \subseteq 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
- PwT 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.
- F_{DV} 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_+ .