MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool	South Blan	co Pictu	red Clif	formation	ictured	Cliffs	_County	Rio	Arriba		
Initial X Annual_					Special			Date of Test		June 24, 1958	
Comp	Company Southern Union Gas		n Gas Co	Co. Lease		Jicar	Jicarilla		l No	3-H	
Unit L Sec. 19 Twp. 26N Rge. LW Purchaser Southern Union Gas Co.											
Casing 5 1/2" Wt. 15.5# I.D. 4.950 Set at 3281 Perf. 3208 To 3250											
Tubing 2 3/8" Wt. 4.7# I.D. 1.995 Set at 3233 Perf. 3218 To 3233											
Gas Pay: From 3208 To 3250 L xG 0.67 TGL Bar.Press. 12.0											
Producing Thru: Casing Tubing X Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: June 15, 1958 Packer Reservoir Temp.											
OBSERVED DATA											
Tested Through (Prover) (Choke) (Meter) Type Taps											
		(Choke		ss. Diff.	Temp.		Data Temp.	Casing D			
No.	(Line) Size	(Orific	· 1	ig h _w	o _F .	psig	°F.	psig	o _F .	of Flow Hr.	
SI 1.		3/4*	23	DR .	620	1016	62 ⁵	10/18		8 days	
2.		2/4		~	020	238	02	609		3 hours	
3. 4. 5.											
<u>5. !</u>							1				
- 	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow										
No.			h _w p _f psia		Factor F _t		Factor F _g	Facto F _{pv}	r	Q-MCFPD @ 15.025 psia	
1.	12.3650		250		0.9981		0.9l ₁ 63	1.028		3001	
1. 2. 3. 4.											
4. 5.											
				PR	ESSURE C	ALCULATI	CONS				
Gas I	iquid Hydro	carbon F	Ratio		cf/bbl.		Speci	fic Gravi	ty Separ	rator Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid											
								621 p2		385.6	
No.	$P_{\mathbf{w}}$	Pt ²	FO	$(F_cQ)^2$	(5	. 0)2	P _w 2	$P_c^2 - P_w^2$	Cal		
	Pt (psia)	t	F _c Q	(r _c Q)	(1	(cQ) ² (-e ^{-s})		1 C -1 W	P	1 371	
$\frac{1}{2}$.							_ 3 85.6	738.0		0.586	
1. 2. 3. 4. 5.											
	Juka D	401 1	201		MORRE						
Absolute Potential: 4,291 MCFPD; n 0.85 COMPANY Fouthern Union Gas Company											
ADDRESS P. O. BOX 815, Farmington, New Mexico AGENT and TITLE G. L. Hoffman											
WITNESSED COMPANY											
REMARKS											

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
- 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.
- FgI Gravity correction factor.
- F_t 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 $P_{\mathbf{t}}$.