Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	BASIN_		FormationFormation						Jan Jual	Ŋ	
Initi	ialXX	Ann	ual		Spec	ial		_Date of T	est_1-	L - 62	
Unit N Sec. 12 Twp. 28-N Rge. 10-W Purchaser Southern Union Gas Co.											
Casing 1/2 Wt. 10.5 I.D. 4.052 Set at 6670 Perf. 6460 To 6648											
Tubing 1 1/2 Wt. 2.90 I.D. 1.610 Set at 6518 Perf. 6512 To 6518											
Gas Pay: From 6460 To 6040 L 6512 xG .700 -GL 4558 Bar.Press. 12.0											
Producing Thru: Casing Tubing XX Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual											
Date	of Complet	ion: 13	2-20-61	Packe	r		_Reservo	ir Temp.			
						ED DATA					
Tested Through (Choke) (Machen) Type Taps											
~		Flow				Tubing					Duration
No.	(Prover)	(Choke)		Diff.	-	Press.		Press.	! !		of Flow
	Size	Size	psig	h _w	o _F .		°F.	psig	[⊃] F•		Hr.
SI		3/4	3/1		68	1965 3h1		1964 1271			days
1. 2.											
3. 4. 5.											
<u>5. l</u>							1				-
	Coeffici	ent			Flow	CULATION Temp.	Gravity	Compre			of Flow
No.		_ ا			Factor		Factor	Factor		Q-MCFPD @ 15.025 psia	
	12.3650	(r) \ \sqrt{1}	1 ^q w ⁿ	35 3	•992		•9258	F _{pv}		10.75	
1. 2. 3. 4. 5.											
3. 4.											
5.								L			
				PR	ESSURE	CALCULATI	ONS				
Gas L	iquid Hydro	carbon Ra	tio		cf/bbl.		Speci	ific Gravi ific Gravi	ty Sepa tv Flow	rato ing	or Gas Fluid
	ty of Liqui		_(1-e ⁻⁵)	ueg	• -	Pc-	1977	Pc	390	<u>გ.</u> 5
No.	$P_{\mathbf{w}}$	P _t .	F _c Q	(F _c Q) ²	2	F ₂ Q) ²	P _w 2	$P_c^2 - P_w^2$	Ca	1.	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$
	Pt_(psia)	't	. c.	(1 c €)	()	F _c Q) ² 1-e ^{-s})				W	
<u>1.</u>								1646.1	3908.	5 	.64.9
1. 2. 3. 4.											
5.				1							
Ábso	olute Poren		6291 Union	Production	MCFPD	; n	5				
COMPANY Southern Union Production Co. ADDRESS Box 808 - Farmington, New Mexico Original Signed By											
AGENT and TITLE L. S. Muennink Production Supt. L.S. MUENNINK WITNESSED V. A. Ripper											
COMPANY Southern Union Production Co.											
					,				PC[]	12	



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 = Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 F.
- $P_{\rm c}$ 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}$ 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
- Pf Meter pressure, psia.
- $h_{\mbox{W}}$ Differential meter pressure, inches water.
- $F_g = Gravity$ 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 $P_{\mathbf{t}}$.