MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Tapacit]	Formation Pictured Cliffs				County_ Rio Arriba				
Init	ialX	Aı	nnual	Special				Date of Test Sept. 1, 1961			
Company Southern Union Produ			Product	ction Co. Lease Martinez				Well No. 1			
Unit M Sec. 2 Twp 25% Rge. 3% Purchaser Southern Union Gas Company											
Casi	ng 33 EUR	t. 9.30	I.D. 2	. 992 Se	t at 3	861 P	erf3781	·	То3	811	
Tubi	ng 13ª W	t. 2.75	I.D. 1	. 610 Se	t at 36	70 P	erf. 366	6	To 3	670	
Gas Pay: From 3781 To 3811 L xG 0.67 -GL Bar.Press. 12.0											
Producing Thru: Casing Tubing I Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: Aug. 25/61 Packer Reservoir Temp.											
Date	OI COMPICE					ED DATA		· • •			
Tested Through (Choke) (Choke) Type Taps											
Flow Data Tubing Da											
	`	(Choke	Press	B. Diff.	Temp.		. Temp.	Press.	Temp.	Duration of Flow	
No.	(Line) Size	(News) Size	, i	g h _w	°F.	psig	°F.	psig	[⊃] F•		
SI 1.		3/1/1	120		53 0 F	1003	53 0p	100k 660		7 days	
2.											
2. 3. 4. 5.											
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow Factor Factor Q-MCFPD										
No.	· (24-Hour)		hwpf	wp _f psia		tor	F _g	Fpv	or	@ 15.025 psia	
1.	12.3650			132			0.9463	1,014	1,014 1577		
1. 2. 3. 4. 5.											
5.											
				PR	essure c	ALCU AT	IONS				
	iquid Hydro				cf/bbl.					arator Gas	
Gravity of Liquid Hydrocarbons deg. (1-e-5)							Specific Gravity Flowing FluidP_c1016P_c1032				
				,				672	W	1.52	
No.	$P_{\mathbf{W}}$	Pt ²	F _c Q	$(F_cQ)^2$	(F	(cQ) ² (-e ^{-s})	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$		Pw Pc	
1.	Pt (psia)				(1	e ^{-s})	1,52	580	I	P _w P _c 0.661	
1. 2.											
3. 4. 5.									+		
	lute Porent	ial: 2	.580	<u> </u>	MCFPD;	n l	0.85		_!	<u></u>	
COMP		ERN UNIO	PRODUCT	TION COMP	ANY						
AGEN'	T and TITLE	/0135	ert D. H	oland. Jr	_ Drill	ing Sup	erintenden	t PPF	HAR		
COMP	ESSED ANY			loland				/RLLI	IVLD	\	
REMARKS								SEP1 3 1961			
									TIL CON. COM		
								DIS	ST. 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 \equiv 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
- P_f Meter pressure, psia.
- hw Differential méter 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 $P_{\mathbf{t}}$.

