MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	Aztec			Fc	ormation	Pictu	red Clif	fs	County	San Ji	uan
Ini	tial		Annual			Special			Date of	Test_S	ept. 24, 1957
Company Southern Union Cas Lease Albricht Well No. 5											
Unit K Sec. 22 Twp. 29N Rge. 10W Purchaser Southern Union Cas Co.											
Casing 51 Wt. 15.5 I.D. 1.950 Set at 2061 Perf. 1910 To 2008											
Tubing Wt. 7 I.D. Set at 1992 Perf. 1972 To 1992											
Gas Pay: From 1940 To 2008 L xG 0.67 est GL Bar. Press. 12.0											
Producing Thru: Casing x Tubing Type Well Single - Cas Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: Sept. 5, 1957 Packer Reservoir Temp.											
OBSERVED DATA											
Tested Through (Choke)X(Mexer) Type Taps											
Flow Data Tubing Data Casing Data										T	
No.	(Prover) (Line)	(Chok	e) Pr		Diff.	Temp.		Temp.	Press.		Duration of Flow
_	Size	Siz		sig	h _w	° _F .	psig	o _F ,	psig	⊃ _F .	Hr.
SI		- 4					658		658		19 days
1. 2.		3/1, "	- 2	53		610	287	 	253	610	3 hours
<u>3. </u>											
<u>4.</u> 5.								 		 	
						FI.OW CAI	CULATION	ıs			
										Rate of Flow	
No.	(24-Hour) $\sqrt{h_{W}}$			f psia			Ft Fg		Factor F _{pv}		Q-MCFPD @ 15.025 psia
1. 2.	12.3650			265		0.9990		0.91 ₁ 63	1.029 3,187		3,187
3°											
4. 5.											
					DD.	o adiooa	A COUR AMT	ONG		<u>.</u>	<u></u>
					PR.		ALCULATI				
	Liquid Hydro ity of Liqui					cf/bbl.					arator Gas ving Fluid
c			(1-e	-s)				Pc	670	_Pc111	18.9
								P _w	299	P#	39.4
No.	$P_{\mathbf{w}}$	$_{ m P_{t}^{2}}$	F _c Q		$(F_cQ)^2$	(F	cQ) ² -e-s)	P_w^2	$P_c^2 - P_w^2$		Pw Pc
-	Pt (psia)					(1	_e-s)	89-1	250 5	F	77
1. 2.								-09-H	359.5		O.448
3.											
4. 5.											
Abso	olute Potent	ial: 3	 L.853			MCFPD;	n0.85				
COM	PANY Southe	rn Unio	n Cas C	•							
ADDRESS P O Box 815 Farmington, New Mexico AGENT and TITLE Gilbert Noland, Jr., Ass't. Drlg. Supt.											
WITNESSED COMPANY											
OOM	WINT					REM	ARKS				120
										0/3	
										ૣૻૡૺ૽	

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
- Pw 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.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- $F_{\rm DV}$ 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_{+} .

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