Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	East. W	eir T	lubb	F	Formation Tubb				_County	.68			
Pool East, Weir Tubb Formation Tubb County Lea Initial X Annual Special Date of Test December 11,													
	any TEXA												
Unit G Sec. 12 Twp. 20S Rge. 37E Purchaser None													
Casing 2-7/8 Wt. 6.5 I.D. 2.441 Set at 6886 Perf. 6535 To 6652													
Tubing None Wt. I.D. Set at Perf. To													
	Gas Pay: From 6535 To 6652 L 6535 xG.683 -GL 4463 Bar.Press. 13.2												
	Producing Thru: Casing X Tubing Type Well Dual Gas-Oil Single-Bradenhead-G. G. or G.O. Dual												
Date	Date of Completion: 11-8-64 Packer Reservoir Temp.												
OBSERVED DATA													
Tested Through (MANNA (Meter) Type Taps Flange													
	Flow Data (Perr) (Chake) Pr			ata			Tubing	Data	Casing Da	ata	ta Duratio		
No.	(Perer) (Line)									į .		of Flow	
	Size	Si	ze	psi	g h _w	°F.	psig	°F.	psig	³ F⋅		Hr.	
SI						44			2110	16	├	72 hrs.	
1.	3.068	2.000				88			2068 2019	66	- -	- 	
2.		11		72		<u>76</u> 60	<u> </u>		1909	67	 	- i	
3•	**	'	11	117		40			1729	67	<u> </u>	î	
4. 5.	**	 			- 20	-40							
No.	Coefficient $(24-\text{Hour}) \sqrt{h_{W}p_{f}}$				Pressure Flo		CULATION Temp.	Gravity	Compress. Factor		Rate of Flow Q-MCFPD		
	(24-Hour)		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$						Fpv				
$\frac{1}{2}$	27.52		39.17		85.2	.9741		.9535			1001		
2.	27.52		_53.4		85.2	.9850		9535			2094		
3° 4° 5°	27.52		79.		106.2	1.000		9535			3063		
4.	27.52	27.52		0	130.2	T.OT.	98	.9535	- * 7 7 7 7 - 				
PRESSURE CALCULATIONS Gravity of Liquid Hydrocarbons 57.0 deg. Fc 5.866 (1-e ⁻⁵) 0.264 PRESSURE CALCULATIONS Specific Gravity Separator Gas 660 Specific Gravity Flowing Fluid 683 Pc 2123.2 Pc 4508.0													
No.	P _w P _t				(F _c Q) ²	(1-e ⁻⁵)		P _w 2	C W		al.	P _w Pc	
1. 2. 3. 4. 5.	2081.2			872	34.48		.103	4339	169	20		.9810 .9589	
2.	2032.2	4129		042	64.67	<u> </u>	-07	4146_	362	20°		9099	
3.	1922.2	369		28	150.8		.8i	3734	1389	17		8318	
40	1742.2	303/	4 17	97	322.9	 85	24	3119	1,202				
Absolute Potential: 4100 MCFPD; n 640 COMPANY TEXACO Inc. ADDRESS Box 1270, Midland, Texas AGENT and TITLE F. W. Moore, District Supervisor (Gas) 5.76 7746. WITNESSED													
COM	PANY												

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 = Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_{w} 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.
- $h_{\mathbf{W}}^{\perp}$ Differential meter pressure, inches water.
- FgI Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.