MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55	>

Poo	1 Tubb		F	ormation	Midd	le Yeso		County	Lea		
Ini	tial	An:	nual	-	Spec	ial	-	_Date of	Test	LO-14	- 58
	pany Magno										
Unit H Sec. 33 Twp. 21S Rge. 37E Purchaser Permian Basin Pipeline Co.											
Casing 7" Wt. 23# I.D. 6.366 Set at 7250 Perf. 6068 To 6224											
Tubing 2-3/8" Wt. 4.7# I.D. 1.995 Set at 6127 Perf. open end To											
Gas Pay: From 6068 To 6224 L 6127 xG .701 _GL 4295 Bar.Press. 13.2											
Proc	Producing Thru: Casing - Tubing x Type Well G.G.										
Date	Producing Thru: Casing Tubing x Type Well G.G. Single-Bradenhead-G. G. or G.O. Dual Packer 6040 Reservoir Temp. 122° F										
						ED DATA					
Tested Through (Boosea) (Ghoka) (Meter) Type Taps Flange											
	(DOGGGGG)	Flow (Onere)	Data		Town	Tubing Press.	Data			Ì	Duration
No.		(Orifice)						1	1	0 777
	Size	Size	psig	h _w	°F•	psig	°F.	psig	[⊃] F•		Hr.
SI						1802				SI 4	0½ hrs.
1.	4.026	1.5	521.3	5.3	78	820				8‡ h	
2.											
3.] 		 				 	-		
<u>4.</u> 5.				 							
											·····
	·		10 Chart			CULATIONS					
No. Coefficient x static Factor Facto				Compre	ess. Rate of Flow						
No.	(2) (2)		h =	Fac		tor Factor		ractor		@ 15.025 psia	
	(4-nour) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		wpf	wpf psia		rt .		rg rpv		9 1):02) psia	
1.	13.99	7.3x5	.3x3.162	=122.34	•983	31	•9258	1.061		1	.652
3								_			
1. 2. 3. 4.											
5.											
				PRI	ESSURE C	ALCU ATI	ONS	,			
											a .
	Liquid Hydro ity of Liqui				cf/bbl.						r Gas <u>.701</u>
r_av_	9,936	и пуштосал	(1-e ^{-s})	0.256	deg.		P_ :	fic Gravi 1815.2	P2 P2	3294.	95
·	,,,,,,		_ \ -			•	- C——		_ U		
								·			,
M =	$P_{\mathbf{w}}$	₂	P.O.	(B 0)2	/-	0\2	ח ח	$P_c^2 - P_w^2$	0-	,	n D
No.	Pt (psia)	Pt Pt	F _c Q	$(F_cQ)^2$	(1	$(c^{Q})^{2}$ $-e^{-s}$)	P_w^2	rc-rw	Ca	l. W	P _w P _c
1.+	833.2	694.2	16.1	259.2		.35	760.55	2534.4	872.	<u>W</u>	48
2.											
3.										_	···
1. 2. 3. 4.		 -									
								1	1		
Absolute Potential: 2011 MCFPD; n .75											
COMPANY MAGNOLIA PETROLEUM COMPANY ADDRESS P. O. BOX 2406, HOBBS, NEW MEXICO											
AGENT and TITLE Blonge I Jowler Cas Engineer											
		J. D. Hort									
	COMPANY Permian Basin Pipeline Company										
					REM	ARKS					

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 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.
 - F_g : Gravity correction factor.
 - Ft 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 $P_{\rm t}$.