MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Po	ol _	Basin	Dak	ota		Formatio	n <u>D</u> e	kota		County_	San J	iion	
In	itial_	X		Ann	ual		Spec	cial		Date of	Test	2-24-61	
Co	mpany	Adob	e 01:	l Com	any		Leage	N M	Tahm	Tu nut	יות בי		
Un	it		Sec.	21 ሌ	m 🐳	H P	79 1 3 W	. Door	ahaa				
Ca	sing_	_ 54	Wt. 1	5.50]	.D.	5.012 S	et at 66	86 P	655	4-60, 65	26 - 32	• 6607-15	
Tu	Casing 5 Wt. 15.50 I.D. 5.012 Set at 6686 Perf. 6476 To 6488 Tubing 2 3/8wt. 4.70 I.D. 1995 Set at 6607 Perf. 6476 To 6607												
Ga:	s Pay:	From	642	6 To	660 <i>7</i>	T.	30 40 <u>66</u>	·C 0	-7T	b	-10	6607	
Gas Pay: From 6976 To 6607 L xG 84 -GL Bar.Press. 11 Producing Thru: Casing Tubing Y Type Well													
Dat	Producing Thru: Casing Tubing X Type Well Single Single-Bradenhead-G. G. or G.O. Dual Date of Completion: Feb. 2-61 Packer												
54,	Reservoir Temp.												
OBSERVED DATA													
Tested Through (Prover) (Choke) (Meter) Type Taps													
~	Flo (Prover) (Choke				ata	7 2:00			g Data Casing D				
No.	(.	Line)	(Ori	fice)	rress	h _w	j -	ĺ	Temp.	Press.	1	Duration of Flow	
SI	-	Size	3,	1ze /4	264	h _w	o _F .		o _F ,	 		hr.	
1. 2. 3. 4. 5.								1965 264	53	1996 653	31	2	
3.	 					 							
4.													
<u> </u>	!		ļ <u></u>			<u> </u>							
-	FLOW CALCULATIONS												
No.	Coefficient					ressure	Flow Temp.		Gravity Compre Factor Facto		1		
	(24-Hour		r)	$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$		psia	F ₁		Fg	Fpv		Q-MCFPD @ 15.025 psia	
1. 2. 3. 4. 5.	12	12,3650				04							
<u>3</u> .						76	1.0068		8450	1.058		30.72 498	
4.													
				L						-			
						PR	ESSURE CA	ALCUI AT I	ons				
Gas]	Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Floring Fluid												
Fc	16y 61	Liqui	а нуал		ons Les)	····	deg.		Specia	fic Gravit 2011	y Flow	ing Fluid	
					_				- C	VIII	-, C- -4-O4	4	
	$P_{\mathbf{w}}$,							T		
No.	P+ (psia)	₽ŧ	Fc	Q	$(F_cQ)^2$	(F.	(0) -e−s)	P _w 2	$P_c^2 - P_w^2$	Ca		
I.	- 0 (pola					(1-	-e -)			P.	e Pc	
3.													
1. 2. 3. 4. 5.													
	7.4			3 31-		·							
Absolute Potential: 3,347 MCFPD; n 75 COMPANY Adobe Oil Company													
ADDRESS 1223 Petroleum Life Bldg., Midland, Texas													
AGENT and TITLE Committee Framer P.O. Box 1064, Farmington, New exice													
COME					RILLI		<u> </u>						
				<i>[</i>]			REMA	RKS					

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- Ft Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_+ .