HOBBS OFFICE OCC

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS
1957 FEB 11 AM 9:57
County Lea

Revised	12-1-55

	- Manager C									(_10 =	4	
					Special							
Company America Petroleum Corporation Lease State "T" Well No. 5												
Unit	. <u> </u>	ec 2 0	Twp 19	Rge	. <u>37-</u>	E Purch	aser Pe	mian Basi	n Pipe	Line		
Casing 6-5/8 Wt. 20 I.D. 6-049 Set at 3864 Perf. 3508-3600 To 3618-3646												
Tubing 3-1/2 Wt. 9.3 I.D. 2.992 Set at 3983 Perf. 3918 To 3983												
Gas Pay: From 3508: To 3646: L 3508: xG 0.688 -GL 2385.4 Bar. Press. 13.2												
Producing Thru: Casing Tubing Type Well G.O. Dual Single-Br tenhead-G. G. or G.O. Dual												
Proc	ucing inru:	. cas.	Ing			Sing	le-Br te	enhead-G.	G. or (.O. D	ual	
Date	e of Complet	ion:	5-3-55	Раске:			_neservo	orr iemb•"		<u> </u>		
					OBSERV	ED DATA	i					
Test	ted Through	Pres	(Ghelee	(Meter)			1	Type Tap	s <u>P</u>	ipe		
			low Data			Tubing		Casing D	ata	1	Duration	
No.	(Prover) (Line)	(Orif	ice)	s. Diff.	·	1					of Flow	
Ī	Size	Si	ze psi	g h _w	°F.	psig	o _F .		+	 	Mr.	
SI 1. 2. 3.	₩	2.7	50" 453	6 5.8	70			977.7 889.3			24	
2.	4 ^R	Ħ	462	7 17.9	65			787.5	├ ──	├ ─┼	24-1/4	
3.		10 10		.6 26.1 .6 31.8	68 72		\	644.3	 	1	23-3/4	
<u>4.</u> 5.	V _R			- 34 ms				. 9				
 -						CAT A MIT CAT		and the second		`		
	Cooffici	ent		Pressure		CULATIONS	Gravity	Compre	ss.	Rate	of Flow	
No.	Coefficient (24-Hour)				psia Fac		Factor	Facto	r	•	Q-MCFPD	
			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	psia			$F_{\mathbf{g}}$	Fpv		@ 15.025 psia		
1.	73.11		52.03	466.8	0.99		0,939	1,04		6565.19		
1. 2. 3. 4. 5.	n		92.29	475.9	0.99		*			7957 1		
30	#		124.03	482.0	0.99 0.98		#			8766.4		
5.			1.4.4.4.7									
					recurrer e	ነል (<i>በነነር ል</i> ምፕ/	ONG					
				PR	ESSURE (CALCUTATIO	ONS				1.	
Gas	Liquid Hydro	carbon	Ratio	Daw	cf/bbl.		Spec	ific Gravi	ty Sep	arato	r Gas	
	ity of Liqui		ocarbons_		deg	•	Spec	ific Gravi	ty Flo	wing l		
Fc	1.397		(1-e ^{-s}	0.151		-	^P c	990.9	rc		<u>, y</u>	
	$P_{\mathbf{w}}$.2		_2 _2		,		
No.		Pt	F _c Q	$(F_cQ)^2$	· (1	$(c_0)^2$	P _w 2	$P_c^2 - P_w^2$		al.	/ Pc	
	Pt (psia)			 		(T=6 a)		163.4	<u> </u>	P	91.30	
2.	902.5	814.5		25.42		2.8		818.5 163.4 647.1 324.8		0.7	81.81	
3.	723.0	522.7		129.86		4:77	541.4	440.5		5.8	71:26	
4.	657.5	132.		150.31		2.7	155.0	526.9	67	4.5	68.07	
5.				\		- (}				\	
Absolute Potential: 13,100 MCFPD; n 0.6306												
	PANY		da Petrel									
AGENT and TITLE W.G. Abbett, Dist. Engineer W.G. Charles												
	NT and TITLE 'NESSED_	<u>etia II</u>	ADDVIE D	Le le Alle	1791	MAS	- LA	<u> </u>				
COMPANY Permian Basin Pipe Line Company												
- 01					RE	MARKS						

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.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\rm W}$ 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.
- 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 $P_{\rm W}$ 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 $P_{\rm t}$.