MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	South E	Manco		· · · · · · · · · · · · · · · · · · ·	Formation	Pietu	ed C1	lffs.	_County	Rio A	rriba	
Initial After Frac Annual Special Date of Test 8-10-60												
Company Caulkins Oil Company Lease SF 079304 Well No. Sanchez #1												
Unit D Sec. 24 Twp. 26N Rge. 6W Purchaser El Paso Natural Gas Company												
Casi	ing 7"OD	Wt2	6# I	.D.6.	276 Se	t at 305	12 F	erf. 306	5	To 311	0	
Tub	ing li "	_Wt2	. 4# I	.D. <u>l</u> .	38 Se	t at 296	3I	erf. nen	l •	То		
Gas Pay: From 3065 To 3110 L 2963 xG .688 _GL 2039 Bar.Press.												
	Producing Thru: Casing No Tubing Yes Type WellGas - Gas Deal Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 7-21-60 Packer 7240 Reservoir Temp.												
540	o or ounpr											
OBSERVED DATA Togted Through (Cheles) (Transport												
Tested Through (Choke) (Tuber) Type Taps Flow Data Tubing Data Casing Data												
	(Prover				s. Diff.	Temp.		ng Data Temp.	Casing Da	Temp.	Duration	
No.	(Line)	(Ori	fice)			-	i			}	l of Flour I	
	Size		Size	psi	g h _w	°F.		o _F ,	psig		<u> </u>	
SI l.		3/	f m	118		60*	640 118	600	640 51.5		7 day SI 3 hr. Flew	
2.			<u> </u>				440	- 50	<u> </u>			
3.												
4. 5.				╂╼╾								
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow											
No.	(24-Hour)			1		Factor			Facto:		Q-MCFPD	
			$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$		psia			Fg	Fpv		@ 15.025 psia	
1. 2. 3.	14,1605		 		130	1.000		.9338 1.0		1747		
3.			<u> </u>									
4. 5.			1									
2.	· · · · · · · · · · · · · · · · · · ·		<u> </u>								· · · · · · · · · · · · · · · · · · ·	
					PRI	ESSURE C	ALCUI AT	IONS				
as I	Liquid Hyd	rocarbo	n Rati	0		cf/bbl.		Speci	fic Gravit	ty Sepa	rator Gas	
	ity of Liq		rocarb	ons		deg.		Speci	fic Gravit	ty Flow	ving Fluid	
'c			(1-e ⁻⁸)		•	^Р с—	652	Pc 42	5,104	
No.	$P_{\mathbf{w}}$		2 F	0	$(F_cQ)^2$	(10	$(c_0)^2$	2 ס	$P_c^2 - P_w^2$	Ca	ıl. Pu	
NO	Pt (psia) 1	t r	$c^{\mathbf{Q}}$	(rew)		c€/s)	$P_{\mathbf{w}}^2$	CM		Pw Pc	
<u>I.</u>								277,729	147,375		.808	
5 +			_			_			<u> </u>	-		
1. 2. 3. 4. 5.										1		
					4	i		. 7 K				
	olute Pore	ntial: aulki	386			MCFPD;	n (2.	38) ⁷⁵ 2.2	107			
	ESS				farming	ten. X4	w Mex	Loo				
AGENT and TITLE Charles / Lerane Production Foreman												
W1:I'NESSED COMPANY												
Orig & 2 oc: OCC REMARKS												
oc: EPNG - Farmington												
			NTH ROCC						Urne.	race		
			11.					1	AUG 19	Face.	i	
								/	OIL CON		,	
DIST.												

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_cI 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
- P_f Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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 $P_{\rm t}$.