MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Blanco -	Mesa	verde	Fc	ormation	nMess	verde		County	Sen	Însan
											ugust 18, 19
											3
	4										18 Company
Casi	7-5/8 ng 53 W	20 t. <u>1</u>	5.5# I	.D. 4.	969 950 Se	36 t at 61	99 48 P	erf	6826	То	6096
Tubir	ng 2-3/8	t	• 7# I	.D. <u>1.</u>	995 Se	et at <u>58</u>	37 P	erf	817	To	_5837
Gas I	Pay: From_	5826	_To	6096	L	X	.G			Bar.Pre	ess. 12.0
Produ	ucing Thru:	Cas	sing		Tu	ıbi.ng	<u> </u>	Type We	ellSins	le - Ge	4
Date	of Complet	ion:_	August	t 6, 19	59 Packe	r	Si	ngle-Brade Reservo	enhead-G. oir Temp.	G. or (G.O. Dual
						OBSERV	ED DATA				
este	d Through	(PA)	DENOV (Choke)	(Neter)	K			Type Tap	os	
			Flow Da				Tubin	g Data	Casing I		
io.	(Prover)	(Cho	oke)	Press.	Diff.	Temp.	Press	. Temp.			Duration of Flor
	(Line) Size	Si	ize	psig	h _w	o _F .	psig	° _F .	psig	[⊃] F•	Hr.
SI .		3/	110	274		71.	1079		1079		7 days
2.				514					730	<u> </u>	3 hrs.
) 									
								1			
			 			FLOW CAL					
ю.	Coeffici	ent		Pr	essure	Flow Fac		Gravity Factor	Compre		Rate of Flow Q-MCFPD
	(24-Hou	r)	¬√ h _w ¤	P _f	psia		t	Fg	Fpv		@ 15.025 psi
	12,1650				286	0.98	396	0.9463	1.030		3,109
					PR	ESSURE C	ALCU AT	IONS			
s Li	iquid Hydro	carbor	n Ratio	0		cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas
avit	y of Liqui	d Hydr	rocarbo	ons_		deg.		Speci	fic Gravi	ty Flow	ving Fluid
			(,	l-e ⁻⁵)	·			Pc	1091 742	_Pc Pv2	1190 550
	$P_{\mathbf{W}}$										
0.		Ρŧ	F	Q	$(F_cQ)^2$	(F	cQ) ² -e ^{-s})	P_w^2	$P_c^2 - P_w^2$		Pw Pc
	Pt (psia)					(1	-e 0)	550	640	r	W Pc
		<u>II</u>								+	
		***	-	<u> </u>					<u> </u>		
OMPA	ute Potent NY 300	THERN	UNION	GAS CO	MPAIX		n <u>o</u> ,	75			
	SS Bear and TITLE	815.	Farmir	ngton,	New Mex	teo	· -				<u> </u>
	ESSED										
OPIPA	TM T					REM	ARKS				·
									PELL L	1	
								/0	[Prive	.u \	
				***	in the second				SEP1 19	159	
	*	• •/							HOO	cc /	
	•								DIST	3	
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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.
- 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
- P_f Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

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

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