MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Blanco			Formation	Mesa	Verde		_County_	San	Juan
Init	ialX	F	Annual		Spec	ial		_Date of	Test	September 18.
Comp	any Sout	hern Uni	on Gas Co	mpany	Lease	Nordhau	ls	Wel	.1 No	6
Unit	N	Sec. 1	Twp.	31N Rg	e. <u>9W</u>	Purc	haser_S	outhern U	nion Ga	s Company
Casi	7 5/0" ng 5 1/2" I	26.40 vt. <u>15.5</u>	I.D <u>L</u>	•969 •950 Se	t at 3/12	5 6118 Pe	rf. 51	36	To 60	นา
	ng 2 3/8" V					-				
										ess12.0
									_	
Date	of Complet	ion:_ 	lv 25. 19	57 Packe	r	Sin	gle-Brade Reservo	nhead-G.	G. or (G.O. Dual
						ED DATA		• -		
Test	ed Through	(Prever	(Choke	(Motor)				Type Tap	s	
	(Prover)		w Data	Diff.	Temp	Tubing Press.		Casing D		Dunation
No.	(Line) Size	(Orific Size	e)		o _F .		°F.			of Flow
SI		Size	psig	g h _w	r.	psig 1030	F.	psig 1030	[⊃] F•	Hr.
1. 2.		3/1/1	290		690	290	6 9 °	761		3 hours
3.		†								
4. 5.										
	066:-:					CULATIONS				
No.	Coefficient (24-Hour) $\sqrt{h_{wr}}$		$\sqrt{h_{\mathbf{w}}\mathbf{p_f}}$	ressure psia	Flow Temp. Factor Ft 0.9915			Compre Factor	r	Rate of Flow Q-MCFPD @ 15.025 psia 3616
1. 2.	12.3650			302			0.9463	1.03	32	
3. 4.										
5.										
				PRE	ESSURE CA	LCUTATIO	ns			
ravit	lquid Hydro y of Liqui	d Hydroca	arbons		cf/bbl. deg.		Speci	fic Gravit	ty_Flow	rator Gas
c			(1-e ^{-s})				Pc P _W	10h2 773	P _C P	1085.8
	P _w					2			w	597•5
No.	Pt (psia)	$P_{\mathbf{t}}^{2}$	F _c Q	$(F_cQ)^2$	(F ₀	Q) ² -e-s)	P _W 2	$P_c^2 - P_w^2$	Ca P	P _W P _C
1. 2. 3.							597.5	488.3		0.71.0
3.										
5.										
Absol COMPA	ute Potent		581 on Gas Co		MCFPD;	n <u>0.7</u>	5			
ADDRE	SS P 0	Box 815	5 Farm	ington. N	ew Mexic	0				
MIINE		Gilber	rt Noland	, dr.	Assis	tant Dri	Lling Sur	perintende	ent.	
COMPA	T MT		· · · · · · · · · · · · · · · · · · ·		REMA	RKS			R	
									SEP	28/00
								(T (Ca)	8/0/

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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_{pv} 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 $P_{\bf t}$.

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