MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	1 Undesignated Pakota			Formation Salute				County			
Initial											
Comp	any Dolla-	Taylor Oll	Chellate	tion	Lease	bolhi	Madge	Wel	1 No	4	
Unit	NEVA S	Sec. 17 Tv	vp _ #-#	Rg	e. 11-	Purc	haser	********			
Casi	ng 5-1/3 "W	/t	I.D. 4.8	Se	t at 7658	Pe	rf. 7156 -	94 84	To 716	18-52 14-84	7053-70 7044-50
Tubi	ng 23/10 W	/t	[.D. <u>1.0</u>	Se	t at 🏒	Pe:	7365 -	74 	707 To	/6-84	
Gas	Pay: From_	7044 To_	7204	L	x	G Cass	GL		Bar.Pre	ess	12
Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: Packer Packer Reservoir Temp.											
						ED DATA		_			
Test	ed Through	(Prover) ((Choke)	(Meter)				Туре Тар	s		
	Flow Data			:		Tubing Data		Casing Data		T	
No.	(Prover) (Line)	(Choke) (Orifice)	Press.		Temp.	Press.	Temp.	Press.	Temp.	1	uration of Flow
	Size	Size	psig	h _w	°F•		°F.			<u> </u>	Hr.
SI l.		374			100	1648 94		1945 1611			Days Hors
2. 3.											
4. 5.											
			•	1	LOW CAL	CULATIONS	3	· ·			
No.	Coefficient (24-Hour) √ h _w p _f		Pre	essure	Flow '	Flow Temp.		Compress. Factor		Rate of Flow Q-MCFPD	
-				psia	F.		F _g	F _{pv}		@ 15.025 psia	
1. 2. 3. 4. 5.							443043	2500			
14. 4.					·						
2.1											
				PRI	_	alcu atio					_
	iquid Hydro ty of Liqui	d Hydrocarb	ons		cf/bbl. deg.		Speci	fic Gravi fic Gravi	ty Sepa ty Flow	rator ving Fl	Gas uid
c		(1-e ^{-s})			4 61	Pc		_ ^P c		<u>,</u>
T	$P_{\mathbf{W}}$	2				.2		2 2	 		
No.	Pt (psia)	Pt F	cQ	$(F_cQ)^2$	(F.	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	I	w	P _W P _C
1. 2.											
1. 2. 3. 4.											
	lute Porent	ial	400		MCBDD	. 0.	75				
COMP.	ANY				MCFPD;	n					
	T and TITLE	7. 15	-	Mata	- particular		1.8				
COMP.	ESSEDANY	no Returns		46 7		V				· · · · · · · · · · · · · · · · · · ·	
					REM	ARKS					·



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 \equiv 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_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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t 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_+ .

