File 7-427 OFP

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo!	Pool Basin Dakota				ormation	n Dakot	ia	County San Juan					
Initial K Annual Special Date of Test October 6, 196													
Company Tenneco Oil Company Lease Cornell Dakota Gas Unit Well No. 1													
Unit D Sec. 14 Twp. 29 Rge. 12 Purchaser													
Casing 5.5 Wt. I.D. Set at Perf. 6171 To 6336													
Tubi	Tubing 2-3/8 Wt. I.D. Set at 6150 Perf. To												
Gas	Gas Pay: From To L xG -GL 0.65 Bar.Press. 12.0												
Prod	Producing Thru: Casing Tubing Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion:Packer							Reservoir Temp. 178						
							ED DATA						
Tested Through XOPOWORX (Choke) (MENERY)							TypecDapsc						
Flow Data (Prover) (Choke) Press. Diff. Temp.							Tubin	g Data	Casing D	ata	I		
No.	(Line)	(Orif	ice)		1	ļ		1	Press.		ി വഴി		
SI	Size	Si	ze	psig	h _w	·F.	psig 2 09 3	°F.			Hr.		
1. 2. 3.		3/1	+				335	78	2095 798		3 hours		
3.												·	
4. 5.													
	:		•			FLOW CAL	CULATIO	NS					
10.	Coefficient Pressure Flow					Temp.	Temp. Gravity Compress. Rate of Flow						
	(24-Hour) √		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia	F	t	Factor Factor F _{pv}		Q-MCFPD @ 15.025 psia			
2. 3.	12.3650				347	0.9831		0.9608		030			
					PRI	ESSURE C	eta iusla	CONS					
	iquid Hydro					cf/bbl.					rator Gas		
avit	y of Liquid	нуаго	(1-	e ⁻⁸)			Specific Gravity Flowing Fluid Pc 2107 Pc 4 439 449						
			· · ·					•		-			
0.	P _w	$P_{\mathbf{t}}^2$	F _c Q		$(F_cQ)^2$	(F	cQ) ² -e ^{-s})	P . ,2	P _c -P _w ²	Ca	1. P.		
	Pt (psia)		+-			(1)	-e ^{-s})	656100	3783349	F	Pw Pc		
								05000	3703349				
			-										
bsol	ute Potenti	al:		+,741	······································	MCFPD:	n 0.75	(1,1270)		L			
OMPA DDRE	NY			-47				<u> </u>		enr.		·	
GENT.	and TITLE												
ITNESSED COMPANY REMARKS													
						REM/	ARKS		\OIL (ON -	961		
									\ 0	IST. 3	OM	•	

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.
- PwT 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.
- $h_{\mathbf{W}}^{-}$ 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 $P_{\rm t}$.