NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool	Emont	<u> </u>		Formation	Yate	36	 	County	Lon		
Init	ial <u>a</u>		_Annual	<u> </u>	Spec	ial	·	Date of	Test	-50	
Company Skelly Oil Co. Lease Marie myn Well No.											
Unit	G G	Sec. <u>16</u>	Twp . 21 .	Rg_Rg	e	Purc	haser	Norther	n Natura	1	
Casi	ng 7**	Wt. 24.	QI.D	5.336 Se	t at_377	70 Ре	rf303	0	To315	0	
Tubi	ng 2-3/8"	Wt. 4.7	I.D	. 995 Se	t at	151 Pe	rf		То		
Gas	Pay: From	3080	To31	o_ L	3151_×	G0.66	GL	2095	Bar.Pres	35	
										O. Dual	
Date	of Complet	tion:	7/53	Packe	r	Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or G.	.O. Dual	
						ED DATA					
Test	ed Through	(Reero	ar) (Chaba) (Meter)				Type Tap	s Pina		
Flow Data			ow Data				Type Taps Promise Type Taps Data Casing Data				
No.	(Prover) (Line)	(Chok	e) Pres	s. Diff.	Temp.	Press.	Temp.	Press.		Duration of Flow	
	Size	Siz	e psi	g h _w	°F.	psig	o _F .	psig	[⊃] F•	Hr.	
SI l.		-				1019.2				71-1/2	
2.		2.2		8 5.3 9 10.0	70	903.3				- 23-1/2 -	
3.		2.3		6 74.6	51, 57	908.2 77.2.7			1	- 2,-1/4	
4.		2.2		3 23.8	60	576.4				23-3/4	
5 .					:			<u> </u>	11		
	000'-					CULATIONS					
No.	Coefficient						Gravity Compr				
	(24-Hou	ır) 7	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	psia	F ₁		Fg	Factor F _{pv}		@ 15.025 psia	
1.	40.53		50.60	483-0	0.990	5 (0.9498	1.047		2020	
2.	40.53		69.94	489.1	1.005	8 (9498	1.056		3860	
3 e 4 •	40.53		84.48	488-8	1.002				4	3438	
5.	LO.53		107-4	484.5	0.998		9498	1.05	3	4342	
ravit	iquid Hydro ty of Liqui				cf/bbl. deg.	ALCU'ATI(Speci Speci	fic Gravi fic Gravi		ng Fluid	
No.	Pt (psia)	$P_{\mathbf{t}}^2$	F _c Q	(F _c Q) ²	(F ₀	Q) ² -e-s)	P _w 2	$P_c^2 - P_w^2$	Cal P _w		
1. 2.	916.5	810-0	90 077 93 117	102.45			aor o	100.4	945.5		
3.	821.4	671.7		807.53	163		782.9	\$45.°	884.8	0.86	
1.	725.9 529.4	526.9 280.5	34.160 43.132		156.		683.3 520.8	382.5	826.6	-,,,,	
5.			4,1,1,2	1013/43/				536.0	727-9	9.72	
		ly 011			MCFPD;	n0_6	559 61	PC			
AGENT WITNE	T and TITLE ESSED		6 Le			Mst.	Supt.				
COMPA	ANI				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.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} 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 $P_{\rm t}$.