NEW MEXICO OIL CONSERVATION COMMISSION

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											CE Offerm C-122	
_	_			MULTI	-POINT E	BACK PRES	SURE T	EST FOR GAS	WELLS 1957 FEB	11 A	Revised 12-1-55 M 9:58	
Poo.	lJalmat	·		Fo	ormation	1 Yat	es - S	even River	County	Lea		
InitialAnnualXSpecialDate of Test_11-23-56												
Company Stanolind Oil and Gas Company Lease C. Myers "B" Well No. 2												
Unit M Sec. L Twp. 24-S Rge. 37-E Purchaser Permian Basin Pipeline Company												
Casing 5-1/2" Wt. 17.0# I.D. 4.892" Set at 3195' Perf. 2720' To 3188'												
Tubing 2-1/2" Wt. 6.5# I.D.2.441" Set at 2690 Perf To												
Gas Pay: From 27201 To 31881 L 26901 xG 0.650 -GL 17491 Bar. Press. 13.2												
Daducing Thrus Cocing Theting Theting Theting												
Producing Thru: Casing Tubing Type Well <u>Single Completion</u> Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 11-7-54 Packer Reservoir Temp.												
						OBSERV	ED DATA	A				
Test	ed Through	(Pres	<u>er) (</u>	<u>Gheke)</u>	(Meter)	1			Type Tap	5	Pipe	
Flow Data							Tubing Data		Casing Data			
	(Prover)				Diff.	Temp.			Press.	Temp.	Duration	
NO .	(Line) Size	(Orii Si	ice) ize	psig	hw	°F.	psią	g ^o f.	psig	°₽.	of Flow Hr.	
SI							762.8		762.8		73 Hrs. SI	
1. 2.	<u></u>	1.00		463.7 8.7		118	711.5		712.1		Proza OPP	
<u>3</u> .	<u> </u>			470.0		66	653.1		654 .h		24	
4.	4	1.	00	461.2		69	566.2		582.0		24-1/4	
5.		<u> </u>		\sim	<u> </u>	L						
	Coefficient			Pressure Flow			CULATIONS Temp. Gravity			Rate of Flow		
No.				``		Fac	tor	Factor	Compres Factor	r	Q-MCFPD	
	(24-Hour)		√ ^h w ^p f		psia	Ft		Fg	Fpv		@ 15.025 psia	
1. 2.	6.375					0.9485		0.9608	1.031		386	
3.	6.375		64.41 94.81			0.994		0.9608	1.045		603	
4.	6.375			5		0.991		0.9608	1.044		789	
PRESSURE CALCUIATIONS Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid Fc5.866(1-e^{-5})_0.113P_cP_c^2602.2												
No.	P _w Pt (psia)	Pt	F	P _o	(F _c Q) ²	2 (F (1	$\left(\frac{Q}{e^{-s}}\right)^{2}$	P _w 2	$P_c^2 - P_w^2$		Pw Pc	
$\frac{1}{2}$		525.2			<u> </u>			526.1	76.1	+		
3.		المالية.	•					445.7	76.1 156.5		.86	
4.		335-7	<u>'</u> *					354.3	247.9		-77	
Abso COMH ADDH AGEN W1TN	olute Porent PANY <u>Stanol</u> RESS <u>Box 68</u> NT and TITLE NESSED PANY	ind 01 - Hob	1\and			MCFPD;	······································	0.60				
						REM	ARKS					

Good Test: Only 3 data points obtained due to the first rate freezing off. Good point alignment and point spread on the data points obtained.

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 (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
- P_w 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.
- h_w Differential meter pressure, inches water.
- FgI Gravity correction factor.

Ft Flowing temperature correction factor.

F_{pv}- Supercompressability factor.

n _ 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_t .