Form C-122

HOSS OFFICE OCC

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

1957 FEB 11 AM 10: Q4

Revised 12-1-55

Pool	Busont		F	ormation	Tates-S	even Rive	ers-Queen	_County_	Lea	
Init	ial	An	nual <u>x</u>		Spec	cial		Date of	Test	9-30-56
Comp	any <b>Stanol</b>	ind Oil an	d Gas Co	apany	Lease(	0.J. G11	lully "B"	Wel	1 No	
Unit K Sec. 22 Twp. 20 Rge. 37 Purchaser Permian Basin Pipe Line Company										
Casi	ng <b>5-1/2"</b> [	Wt. 14.0#	I.D. <u>5.</u>	<b>012"</b> Se	et at_33	<b>481</b> Pe	erf. 2	6401	To	661
Tubing 2" Wt. 4.7# I.D. 1.995" Set at 2663' Perf. To										
Gas Pay: From 2640' To 3266' L 2663' xG 0.670 -GL 1784' Bar. Press. 13.2										
Producing Thru: Casing Tubing Type Well Single Completion Single-Bradenhead-G. G. or G.O. Dual										
Date of Completion: 3-29-56 Packer Reservoir Temp.										
					OBSERV	ED DATA				
Test	ed Through	(Broser)	(Obober)	(Meter)	_			Type Tap	s Pip	<u> </u>
Flow Data						Tubing	Caging D	sing Data		
$\overline{}$	(Because)			Diff	Temp.					Duration
No.	(Line) Size		)		, ·		1	psig	1 -	ofFlow
	2176	Size	psig	<sup>II</sup> W	r.			<del></del>	r.	<del></del>
SI	_4*	2.50**	472.6	21	46	982.4	<del> </del> -	1035.2	ļ	69 26-1/2
1. 2. 3.	4"	2.50				841.2	<del> </del> -	959.7		24
3.	4*	2.50				715.0		938.6		24
4. 5.	4"	2.50**	486.5	26.4	71	618.0		919.9		24/
5. 1	<del></del>	<u> </u>		<u>L</u>		1	<u> </u>			
FLOW CALCULATIONS										
	Coeffici	ent	D,					Compres		Rate of Flow
No.		_		ļ	Fac	tor	Factor	Factor	r l	Q <b>~M</b> G™PD
	(24-Hou	r) 7/1	hwpe	psia	F	+.	$F_{\sigma}$	Fny		@/15.025 psia
$\frac{1}{1}$	Shakk		.81	<del>-</del>	1.0137		0.9463	1.055		/ 2138
1. 2.	54.44	69	.51		0.9915		0.9463	1.047		3717
3.	54.44	99	.30		0.9905		0.9463	1.049		5314
<b>4. 5.</b>	54-44	114	.8		0.9896		0.9463	1.044		6109
5.										
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  Fc										
		<del> </del>	<del></del>	<del>_</del>	<del></del>				<del>,</del>	
No.	Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	(F	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	$P_w^2$	$P_c^2 - P_w^2$	Ca P	P.W. Pc
	995.6	991.2					043.7	55-4		.97
2.	854.4	730.0					946.5	152.6		.93
	728.2	530.3						193.2	ļ	.92
4. 5.	631.2	398.4				<del></del>	870.7	228.4	<del>i</del>	.69
		<del></del>				<del></del>			<u> </u>	
Absolute Potential: 18,000 MCFPD; n 694										
COMPANY Stenolind Oil and Gas Company										
ADDRESS Box 68 - Hobbs, New Mexico AGENT and TITLE										
	essed		<del></del>	<del>-</del>						
COMPA								<del></del>		
REMARKS										

## 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.
- Pol 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.
- har Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft. Flowing temperature correction factor.
- For 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  $P_{\pm}$ .