3 NMOCC 2 Adobe Oil Co. 1 File

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

DIST. 3

Poo	l Basin -	Dakota	<u> </u>	_Format	tion	Da	ikota		_County	San Ji	pan	
Ini	itialAnnual				Special_				Date of Test_		August 6, 1962	
Com	ompany Adobe Oil Co.				Lease Atkins				Wel	1		
Uni	t <u>B</u> s	ec. <u>15</u>	Twp	31N	_Rge	13W	Pur	chaser	····	· <del></del>		
Casing 4 1/2" Wt. 10.5# I.D. Set at 6790 Perf. 6540 To 6666												
Tubing 2 3/8" Wt. 1.7 I.D. Set at 6637 Perf. To												
Gas	Gas Pay: From <u>6540</u> To <u>6666</u> L <u>xG _65</u> _GL											
Producing Thru: Casing Tubing X Type Well Single - Cas  Single-Bradenhead-G. G. or G.O. Dual  Date of Completion: Packer Reservoir Temp.												
Dat	e of Complet	ion:		P				Reservo	oir Temp	<del></del>		
Tested Through (Choke) (Choke) Type Taps												
			ow Data					Data	Casing Da	ata	1	
No.	• •	Í PRILL	EEF		1	_	ł		Press.	Ī	of krow	
SI	Size	Size	e ps	ig r	w W	o <sub>F</sub> .	1937	o <sub>F</sub> ,	psig 1957	··	Hr.	
1.							2731		1721			
2 <b>.</b> 3•		3/4*	14	1	-   -8	O <sub>Q</sub>			577		3 hrs	
4.												
No.	Coefficient (24-Hour)		$\sqrt{\mathtt{h_{\mathbf{w}}}\mathtt{p_{\mathbf{f}}}}$	Pressure		FLOW CALCULATION Flow Temp. Factor Ft			Compress. Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia	
1. 2.								<del></del>	+			
3. 4.	12.365			153		9813		9608	1.012		1805	
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  Fc(1-e^{-8}) P_c1869												
	P <sub>w</sub>	Pt <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub>	Q) <sup>2</sup>	(F (1	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	I .	Pw Pc	
1. 2. 3. 4.	589							346,921	3,530,040		1.0983	
Abso COMI ADDI AGEI WITI	olute Potent PANY Adobe RESS 1223 NT and TITLE NESSED PANY	O11 Co.	m Life	<b>Buildir</b> by T. A	g. Mid	land,	Texas Consulti	1.0728	er /R			
						1.111	raturn.		1	G1 4 1 CON.	2	

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15 025 psia and 60° F.
- P<sub>c</sub>= 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 well ead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\rm t}$ .