1 file

3 MMOCC 1 Redfern & Herd NEW MEXICO OIL CONSERVATION COMMISSION 1 Christman

Form C-122

## MILITI-POINT BACK PRESSURE TEST FOR GAS WELLS

			þ	ULTI	-POINT B	ACK PRES	SURE TE	ST FOR GAS	WELLS		Revised 12-1-55	
Poc	ol Flora V	Lsta										
Ini	tial X Annual_				Special_				_Date of	Test	11-29-61	
Company Redfern & Herd, Inc. Lease Johnston Well No. 1												
Unit I Sec. 28 Twp. 30N Rge. 12W Purchaser_												
											45	
Casing 52 Wt. 15.5# I.D. Set at 6295 Perf. 3245 To 3245  Tubing 12 Wt. 2.4 I.D. Set at 3256 Perf. 3253 To 3256												
Gas Pay: From To L xG 650 -GL Bar.Press.												
Producing Thru: Casing Tubing Y Type Well Cas-Gas Dual												
Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 11-6-61 Packer 6015 Reservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Macas) Type Taps												
	Flow Dat					Temo.		Z Data Temp.	Casing Data Press. Temp.		Duration	
No.		(Orif	ice)	psig		o <sub>F</sub> .			psig	1	of Flow Hr.	
SI	DIZC		20	Pore	1'W		1258	<del></del>	1260			
1. 2.	2#	24 3/44		154		54			736		3 hea	
3. 4.												
5.				-								
<b>-</b>	0861					FLOW CAL			10		Rate of Flow	
No.			/ <del>.</del>	Pressure		Flow Temp. Factor		Gravity Factor	Compress.		Q-MCFPD	
1.	(24-Hour) $\sqrt{h_1}$		√ h <sub>w</sub> p <sub>f</sub>	f psia		Ft		Fg	F <sub>pv</sub> e 1		● 15.025 psia	
2. 3.	12.365			166		1,0058		.9608	1-017		2017	
4. 5.												
				<del></del>		ESSURE C	A C CITY A MT	TONG				
	<b>.</b>	,	D-4.						ot - Ot	<b>.</b>	and an Oak	
Gas Liquid Hydrocarbon RatioGravity of Liquid Hydrocarbons						deg.	deg. Speci			ific Gravity Separator Gas		
Fc			(1-	e <b>-</b> s <u>)</u>			•	Pc_1	272	_ <sup>P</sup> c1	617.984	
	$P_{\mathbf{w}}$		.	T		<del>- 1</del>			2 0			
No.	Pt (psia)	$P_{\mathbf{t}}^{2}$	F <sub>c</sub> Q		$(F_cQ)^2$	(F	$\left(\frac{c^{Q}}{c^{-s}}\right)^{2}$	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$		$\frac{P_{w}}{P_{c}}$	
1. 2.										#		
3.	748							559.504	1058.48		1.5286	
4. 5.										<u> </u>		
Absolute Potential: 2773 MCFPD; n •75 1.3747  COMPANY REDEERN & HERD, T.C.												
ADD	RESS Box NT and TITLE	17/7.	Midlan	i, Te	Was	P •						
WlT	NESSEDOFF	inal si	gned by	T. A	. Dugan	ingi neer						
COM	PANY		<del></del>		<del></del>	REM	ARKS		/	FI HITS	10	

## 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<sub>W</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\rm t}$ .