## NEW MEXICO OIL CONSERVATION COMMISSION

1 Redfern & Herd

1 Pioneer 1 Christman

1 File

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Pool Basin - Dakota							rmation			County San Juan					
Init	ialAnnua			alSpecial						_Date of	Test 6-3-62				
Comp	ompany Redfern & Herd. Inc				nc.	c. Lease Incerne					Wel	1 No	B	<u> </u>	
Unit	<u> </u>	S	ec	17_Tw	o	28N	Rge	e. <u>111</u>	<u>I</u> Pur	chaser			<del></del>		
Casing <u>4 1/2* Wt. 10.5# I.D.</u> Set at 6379 Perf. 6144 To 6280															
Tubing 1 1/2" Wt. 2.4# I.D. Set at 6180 Perf. Open and To															
Gas	Clas Pay: From 6144 To 6280 L xG 65 -GL Bar. Press.														
Prod	Producing Thru: Casing Tubing X Type Well Single - Ces Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 5-15-62 Packer Reservoir Temp.														
Date	OI COM	preci	LON:	5-15-	62		racker		ED DATA		tt remb.			<del></del>	
<b>Test</b>	Tested Through Xing Choke) (Choke) Type Taps														
~	Flow I									g Data	Casing Data				
No.	(Line	Prover) (Choke) (Line) (Orifice) Size Size		fice)			1	Temp.	Press psig	Temp.	1	ress. Temp.		Duration of Flow Hr.	
SI	5120		5.	Lze	psi	-8	h <sub>w</sub>	F •	2105		2107				
1.															
2.		3/4#		Ħ	364			650			1835			3 hrs.	
4.						7				Ţ					
<u> </u>			<del> </del>			1		<del></del>	<b>I</b>		L		L		
	Coef	Fi ci e	ent	ì		Pro		FLOW CAL		NS Gravity	Compre	ss.	Rate	of Flow	
No.	Coefficient							Factor		Factor Fact		or Q⊣		CFPD	
1	(24-Hour) √			√ h <sub>w</sub> i	h <sub>w</sub> p <sub>f</sub> psia			Ft			rg rpv		6 15.025 psia		
2.															
3.	12.365						376 .99		52 ,9608		1.037		4610		
5.												1			
							PRI	ESSURE C	ALCUI AT	IONS					
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Specific Gravity Flowing Fluid															
Gravity of Liquid Hydrocarbons (1-e <sup>-8</sup> )							deg. Spec				2119 Pc 4.490.161				
C															
No.	P <sub>w</sub> P <sub>t</sub> <sup>2</sup>		2 F.	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>	1	al.	P., Pc		
1 2.				_		+					<u> </u>				
3. 4.	1847	$\Box$				1				3,411,409	1,078,752	2		4-1624	
4. 5.	·			<del></del>	<del></del> -	+	<del></del>					<u> </u>			
Abso	Absolute Potential: 13.435 MCFPD; n= .75 2.9143  COMPANY Redfern and Herd. Inc.														
ADDR	ESSE	ox 1	747	Midlan	d. T	6009.	8								
	IT and T IESSED	ITLE	rigina	d signe	d by	T.	A. Dufe	nsultin	g Engin	90r				<del></del>	
COME											145	1111	ZA		
								REN	MARKS		RI	Prixi	LD 06₹		

## 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.
- $P_c$  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.
- $h_{\mathbf{W}}^{\perp}$  Differential meter pressure, inches water.
- $F_{g}$  Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\mathbf{W}}$  cannot be taken because of manner of completion or condition of well, then  $P_{\mathbf{W}}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\mathbf{t}}$ .