## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool South Hlanco Formation Pictured Cliffs County Ric Arriba

Initial Annual Annual				Spec:		Date of Test					
Company Magnolia Petroleum Company Lease W. O. Hughes Well No. 2											
	Se										
	ng 5 1/2"W								7211	<b>.</b>	
Tubing 2 3/8 wt. 4.7 I.D. 1.995 Set at 3,200 Perf. To  Gas Pay: From 3153 To 3214 L xG 0.68(est)-GL Bar.Press. 12 psia											
Producing Thru: Casing Tubing Tubing Type Well single  Single-Bradenhead-G. G. or G.O. Dual  Date of Completion: 8-12-57 Packer none Reservoir Temp.											
Date	of Complet:	ion: <u>8-</u>	12-57	Packer	LINE	<u> </u>	Keservo	ir Temp			
					OBSERV	ED DATA					
Teste	ed Through	(10000)	(Choke	) ( <del>Meter)</del>				Type Tap:	s		
	<del></del>	Flo	w Data			Tubing	Data	Casing Da		-	
No.		(Choke		s. Diff.	Temp.	Press.	Temp.	Press.	Temp.		Duration of Flow
No.	(Line) Size	Size	, I	g h <sub>w</sub>	°F.	psig	°F.	psig	<sup>⊃</sup> F•	ì	Hr.
SI					62	974 201	62	973 503			3 hours
1. 2. 3.	2*	0.750	201		OZ.	202		707			
<u>3.</u>											
4. 5.											
<u> </u>							<u> </u>	L	<u> </u>	<u></u>	
	Coeffici	ent				CULATION		Compre	55.	Rate	of Flow
No.	(24-Hour) $\sqrt{h_{w}p_{f}}$ I			Fact		Cemp. Gravity Factor		r	Q-MCFPD		
					F	t	$^{\mathrm{F}}_{\mathbf{g}}$	Fpv		@ 15.025 psia	
1.	12.3650			213	•9	981	•9393	1.0	23		2,920
3.											
2. 3. 4. 5.											
<del>-2•-1-</del>											
				PRE	ESSURE C	ALCUATI	ONS				
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas											
Fravity of Liquid Hydrocarbons deg.  Specific Gravity Flowing Fluid  C(1-e^-s)  P_CP^2											
· c		<del></del>		<del></del>		-	- C		_ (		
	$P_{\mathbf{w}}$		Γ		<del>-  </del>						
No.	·	$P_{\mathbf{t}}^{2}$	F <sub>c</sub> Q	$(F_cQ)^2$	(F	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	$P_w^2$	$P_c^2 - P_w^2$	1	1.	Р <u>w</u> Рс
	Pt.(psia)				- (1	. <u>-e-0)</u>	265.2	703.	1	w	1 C
2.	525										
3.			<u> </u>	<del> </del>				<del> </del>			
1. 2. 3. 4.			<del> </del>	<del>                                     </del>							
	lute Potent	ial:	3,317	<del></del>	MCFPD:	n	0.85		<u> </u>		
COMPANY MACHICLIA PETROLEUM COMPANY											
	ESS T and TITLE		bbs, sev	MALICO /	Cas	Enginee	r				
WITN	ESSED								19		
COMP	ANY				REN	MARKS			08		

## 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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If  $P_{w}$  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  $P_{t}$ .

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