

		- <b>€</b> , 1		TI-POINT B	ACK PRES	SSURE TES	fubor! Gals	Autita , e	5	Revised 12-1-55	
Poc	1 Todd San Andres			Formation San Andres				County	Roosev	elt	
Ini	tial X Annual		Special			···	Date of	Test Ju	Ly 27-31, 1965		
Company Jack L. McClellan Lease Federal 22 Well No. 1									1		
Unit N Sec. 22 Two 7 S Rge. 35 E Purchaser None											
Casing 4 1/2 Wt. 9.5 I.D. 4.090 Set at 4336 Perf. 4097 To 4244											
Tubing   2   Wt.   4.7   I.D.   1.995   Set at   4050   Perf. open end   To     Gas Pay:   From   4097   To   4244   L   4050   xG   .785   -GL   3179   Bar. Press.   13.2											
Producing Thru:CasingTubingXType WellSingleDate of Completion:7/65Packer 4050Reservoir Temp.100											
(Not notding)											
OBSERVED DATA Tested Through <u>(Prover)</u> (C <del>hoke</del> ) (M <del>eter)</del> Type Taps											
Tes	ted Through							Type Taps			
~		(Choke		s. Diff.	Temp.	Tubing Press.	Data Temp.	Casing D Press.	ata Temp.	Duration	
No.	(Line) Size	(Orific Size		g h <sub>w</sub>	°F.	psig	° <sub>F</sub> .	psig	<sup>&gt;</sup> F.	cf Flow Hr.	
SI	0 5/0	Wellhea		- ~		959		956		96	
1. 2. 3.	2 x 5/8	16/64	00		70	370		374		3	
<u>3.</u> 4.											
4. 5.		1									
	FLOW CALCULATIONS										
No.	Coeffici	ent		Pressure		Temp. tor	Gravity Factor	Compress. Factor		Rate of Flow Q-MCFPD	
	(24-Hou	1 <b>r)</b>	Fwpf	psia	Ft		Fg	Fpv		@ 15.025 psia	
$\frac{1}{2}$	8,3555			73.2	<u>•9905</u>		.8743	1.000		530	
$\frac{1}{2}$ . $\frac{3}{4}$ . $\frac{1}{5}$ .					<u>-</u>						
5.											
				FEI	ESSURE C	ALCULATI	ONS				
	Liquid Hydro			and the second se	cf/bbl.					rator Gas 785	
Gravity of Liquid Hydrocarbons None deg. Specific Gravity Flowing Fluid   Ic											
		·									
No.	Pw	$\mathbf{p}_{\pm}^{2}$	∣ ⊧ <sub>₽</sub> ⊋	(F <sub>c</sub> Q) <sup>2</sup>	(F	cQ;2 -€-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	l. P <sub>w</sub>	
	<del>-Pt</del> (psia) <b>387.2</b>		Ļ		(1	-e <sup>-s</sup> )			P.		
2.	20(96	······	······································				150	795			
1. 2. 3. 4. 5.									_ <u>_</u>		
			· · · · · · · · · · · · · · · · · · ·					、			
Absolute Pocential: Est. 593 MCFPD; n .65 (assumed) COMPANY Jack L. McClellan											
ADDH AGE1	RESS <u>Box</u> NT and TITLE	848. Ros 7/.	K. Ami	W Mexico	Inden	endent G	is Tester	-Oil Reno	rts & G	as Services	
WlT	VESSED None				¥						
COMPANY											

Attempted to run 4 - 1 hour flow rates. Unable to stabilize low rates because of water building up in tubing. Stabilized well at anticipated sales line pressure.

## 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 ( $P_w$ ). MCF/da. @ 15.025 psia and 60° F.
- P<sub>c</sub>= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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
- P<sub>f</sub> Meter pressure, psia.
- $h_{W}$  Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{pv}$  Supercompressability factor.
- n \_ Slope of back pressure curve.
- Note: If  $P_w$  cannot be taken because of manner o.' completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_t$ .