## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Charlette   Annual   Special   X   Date of Test   10 59	
Company   Pan   merican   Petroleum   Gorp.   Lease   Keys   Sar   Unit   N   Sec.   29   Twp.   29%   Rge.   10W   Purchaser   21   Page   Sutuant   120   Sar	
Casing   1/2   Wt   1.D.   5.012   Set at   1855   Perf   1802   To   1826     Casing   1/2   Wt   2.9   I.D.   1.610   Set at   1801   Perf   Perf   To     Casing   1826   L   1801   xgC.65 (est.)   GL   1171   Bar.Press.   12     Casing   Tubing   L   Type   Well   Additional Perf   To     Casing   Tubing   L   Type   Well   Additional Perf   To     Casing   Tubing   L   Type   Well   Additional Perf   To     Casing   Trubing   L   Type   Well   Additional Perf   To     Casing   Flow   Data   Tubing   Data   Casing   Data     Casing   Flow   Data   Tubing   Data   Casing   Data     Casing   Choke   Press   Diff   Temp.   Press   Temp.   Press   Temp.     Casing   Type   Tans   Tubing   Data   Casing   Data     Casing   Casing   Data   Tubing   Data   Casing   Data     Casing   Casing   Data   Tubing   Data   Casing   Data     Casing   Casing   Casing   Data     Casing   Casing   Casing   Data     Casing   Casing   Casing   Data     Casing   Ca	
Casing   1/2   Wt   1.D.   5.012   Set at   1855   Perf   1802   To   1826     Publing   1/2   Wt   2.9   I.D.   1.610   Set at   1801   Perf   Perf   To     Casing   To   1826   L   1801   xgC.65 (est.) GL   1171   Bar.Press.   12     Producing Thru:   Casing   Tubing   X   Type   Well   Additional Literal	·
Cubing 1-1/2   Wt.   2.9   I.D.   1.610   Set at   1801   Perf.   To   To   To   To   To   To   To   T	
Producing Thru;   Casing	
Tubing 1 Type Well Single-Bradenhead-G. G. or G.O. Dual Single-Bradenhead-G. G. or G.O. Dual Reservoir Temm.  OBSERVED DATA  Type Tans  Flow Data  Flow Data  Tubing Data Casing Data  Flow Data  Tubing Data Casing Data  Tubing Data Casing Data  Flow Choke Press. Diff. Temp. Press. Temp. Of Office Press. Temp. Office Press. Office Press. Office Press. Office Press. Office Press. Office Press. Office Press	
Date of Completion:    No-16-59   Packer   1780   Reservoir Temms   95 7 7	
Tested Through  (Choke)  Flow Data  Flow Data  Tubing Data  Casing Data  Tubing Data  (Choke)  Press. Temp.  Of Press. Temp.	
Flow Data  Flow Data  Tubing Data  Tubing Data  Choke)  (Choke)  Press.  Temp.  Press.  Temp.  Press.  Temp.  Of  OF.  Press.  Flow Data  Tubing Data  Casing Data  Of  OF.  Press.  Temp.  Of  OF.  Press.  Flow Press.  Flow OF.  Press.  Press.  Flow OF.  Press.	
Flow Data  Flow Data  Tubing Data  Casing Data  Temp.  Press. Temp.  Of.  OF.  Press. Temp.  OF.  OF.  Press. Temp.  OF.  OF.  Press. Temp.  OF.  OF.  Press. Temp.  OF.  OF.  Press. Te	
No. (Line) (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. of Off. Size Size psig hw Off. psig Off. Press. Temp. Of	
No. (Line) Size Size psig h <sub>w</sub> o <sub>F</sub> . psig o <sub>F</sub> . psig o <sub>F</sub> . F. F. Size Size psig h <sub>w</sub> o <sub>F</sub> . psig o <sub>F</sub> . F. F. Size Size psig h <sub>w</sub> o <sub>F</sub> . psig o <sub>F</sub> . F. F. Size Size psig h <sub>w</sub> o <sub>F</sub> . psig o <sub>F</sub> . F. F. Size Size Size Size Size Size Size Size	ation
Sint in 7 day   Sint in 7 da	
FLOW CALCULATIONS  Solve the second sector of the sector o	
FLOW CALCULATIONS  Solve of ficient No. (24-Hour) Thype Pressure Flow Temp. Gravity Compress. Rate of Factor Facto	
No.	
No. Coefficient Pressure Flow Temp. Gravity Compress. Rate of Gravity	<del></del>
No. (24-Hour) $\sqrt{h_{W}p_{f}}$ psia Factor Factor $F_{g}$ $F_{pv}$ @ 5.024	Flow
(24-Hour) 7 hwpf psia 1000 0.9608 1.000 38	,
1. 2. 3. 4. 5. 5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
3 · 4 · 5 · 1	
5.	
PRESSURE CALCULATIONS	
Gas Liquid Hydroparbon Ratio cf/bbl. Specific Gravity Separator Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flu	id
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid 16.46 (1-e-s) 0.082 Pc 19.401	
No. $P_{\rm w}$ $P_{\rm c}^2$ $(F_{\rm c}Q)^2$ $(F_{\rm c}Q)^2$ $P_{\rm w}^2$ $P_{\rm c}^2$ $P_{\rm c}^2$	Pw Pc
Pt (psia) 1. 32 1024, 6.255 39.125 32.8 4232 297.169 65	
2.       3.	
4.0	
Absolute Potential: 385 MCFPD; n 0.85	
COMPANY For American Petroleum Corporation	
AGENT and TITLE R. Baser, P., Area Captibles / Park Jack Land	
WITNESSED REMARKS	

## 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 ( $P_W$ ). MCF/da. @ 15.025 psia and 600 F.
- $P_{\text{c}}$  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.
- $h_{\mathbf{W}}^{\perp}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{DV}$  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  $P_{\mathbf{t}}$ .

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