

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool WILDCATE Formation PICTURED CLIFFS County RIO ARribaInitial \_\_\_\_\_ Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 7-31-56Company J. F. HICKMAN Lease CLARK Well No. 4Unit SW Sec. 5 Twp. 24N Rge. 3W Purchaser Not connectedCasing 5-1/2 Wt. 14# I.D. 5" Set at 3274 Perf. 3222 To 3268Tubing 2-3/8 Wt. \_\_\_\_\_ I.D. 2" Set at 3232 Perf. \_\_\_\_\_ To \_\_\_\_\_Gas Pay: From 3222 To 3268 L est. 700 GL Bar.Press. 12.0

Producing Thru: Casing \_\_\_\_\_ Tubing \_\_\_\_\_ Type Well \_\_\_\_\_

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 5-12-56 Packer \_\_\_\_\_ Reservoir Temp. \_\_\_\_\_

## OBSERVED DATA

Tested Through (Prover) (Choke) (None) Type Taps \_\_\_\_\_

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) ( <del>2 3/4</del> ) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.						1020		1020		shut in
2.		2 x 3/4	441		70	441	70	681		3 Hr. Flow
3.										
4.										
5.										

## FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	14.1605		453	.9905	.9258	1.053	6194
4.							
5.							

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-S</sup>)Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 1032 P<sub>c</sub><sup>2</sup> 1.065.0

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> )	693 P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.									
2.									
3.						480.2	584.8		1.82
4.									
5.									

Absolute Potential: 12,307 MCFPD; n .85 = 1.664COMPANY PACIFIC PETROLEUM PIPELINE CORPORATIONADDRESS 1054 N. BroadwayAGENT and TITLE W.B. RICHARDSON III, WELL TEST ENGINEER

WITNESSED \_\_\_\_\_

COMPANY \_\_\_\_\_

## REMARKS

Additional Well bore information not available.



### 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.

$P_c$  = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.  
psia

$P_w$  = Static wellhead working pressure as determined at the end of flow period.  
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

$P_t$  = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

$P_f$  = Meter pressure, psia.

$h_w$  = Differential meter pressure, inches water.

$F_g$  = Gravity correction factor.

$F_t$  = Flowing temperature correction factor.

$F_{pv}$  = Supercompressibility factor.

$n$  = 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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