

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool WEST KUTZ Formation PICTURED CLIFFS County SAN JUAN  
Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test JAN. 23, 1960  
Company TIDAL OIL COMPANY Lease R.L. FUNDINGSLAND Well No. 1-TIDAL  
Unit I Sec. 9 Twp. 27N Rge. 12W Purchaser EL PASO NATURAL GAS CO.  
Casing 8-5/8 Wt. 24 I.D. 8.097 Set at 1453 Perf. 1354 To 1362  
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 1360 Perf. 1357 To 1360  
Gas Pay: From 1354 To 1362 L 1357 xG est. 0.650 -GL 883 Bar.Press. \_\_\_\_\_  
Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well Single  
Single-Bradenhead-G. G. or G.O. Dual \_\_\_\_\_  
Date of Completion: JAN. 19, 1960 Packer No Reservoir Temp. \_\_\_\_\_

## OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps \_\_\_\_\_

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						379		379		61
1.										
2.										
3.	2	3/4	15		61			50	61	3 hrs.
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.	12,365		27	0.990	0.9608	1.000	318
4.							
5.							

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
P<sub>c</sub> 2.402 (1-e<sup>-s</sup>) 0.062

Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 391 P<sub>c</sub> 152,881

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>c</sub> <sup>2</sup> P <sub>t</sub>	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> )	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.	27	0.729	2.990	8.940	0.554	3.244	149.037		0.062
4.									
5.									

Absolute Potential: 325 MCFPD; n 0.85/1.0218

COMPANY TIDAL OIL COMPANY  
ADDRESS 445 PETROLEUM CLUB BLDG., DENVER, COLORADO  
AGENT and TITLE MORRIS E. JONES, PETROLEUM ENGINEER  
WITNESSED JOHN HOLLINGSWORTH  
COMPANY PAN AMERICAN PETROLEUM CORP.

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

- $Q$  = 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.
- $F_{pv}$  = Supercompressability 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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