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## NEW MEXICO OIL CONSERVATION COMMISSION

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Revised 12-1-55

Pool So. Blanco Tocito Formation Callup County Rio ArribaInitial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 10/26/62Company Compass Exploration, Inc. Lease Fed Lindrith Well No. 1-1Unit H Sec. 4 Twp. 26 Rge. 7W Purchaser \_\_\_\_\_Casing 5-1/2 Wt. 15.5 I.D. \_\_\_\_\_ Set at 7431 Perf. 6656 To 6662Tubing 2-1/16 Wt. 3.25 I.D. \_\_\_\_\_ Set at 6636 Perf. Open Ended To \_\_\_\_\_Gas Pay: From 6665 To 6662 L \_\_\_\_\_ xG .65 -GL \_\_\_\_\_ Bar.Press. \_\_\_\_\_Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well Dual - Gas

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

Date of Completion: 6/12/62 Packer 7100 Reservoir Temp. \_\_\_\_\_Workover: 10/9/62

## OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1547		1561		
1.										
2.										
3.	2"	3/4"				257		1163		3 Hours
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		269	.9933	.9608	1.026	3257
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> 1573 P<sub>c</sub><sup>2</sup> 2,474,329

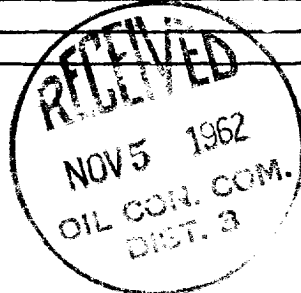
No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> /P <sub>c</sub>
1.									
2.									
3.	1175					1,390,625	1,093,704		2.2623
4.									
5.									

Absolute Potential: 6008 MCFPD; n = .75 1.8446COMPANY COMPASS EXPLORATION, INC.ADDRESS P. O. Box 1138, Farmington, N. Mex.AGENT and TITLE F. C. Ellis Production Supt.

WITNESSED \_\_\_\_\_

COMPANY \_\_\_\_\_

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  $P_t$ .