## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Remi	hap	12-	.1_	5	5

Pool	Gavilan			F	ormation	Picture	d Cliffs		County_	Rio	Arriba
	Initial X Annual Special Date of Test January 19, 1962										
Company Socony Mobil Oil Co., Inc. Lease <u>Jicarilla H</u> Well No. H-10											
Unit L Sec. 11 Twp. 26N Rge. 3W Purchaser El Paso Natural Gas Co.											
Casing 2-7/8" Wt. I.D.22" Set at 3734 Perf. 3616 To 3694											
Tubing X         Wt.         I.D.         Set at         Perf.         To											
Gas Pay: From 3616 To 3694 L 3553 xG 695 -GL 2469 Bar. Press.											
Date	Producing Thru: Casing X Tubing Type Well Gas (single)  Single-Bradenhead-G. G. or G.O. Dual										
Date	Date of Completion: 9/22/61 Packer None Reservoir Temp.										
	OBSERVED DATA										
Tested Through (Prover) (Choke) (Meter)  Type Taps											
	(grewen)	F. (Cho	low Da		Diff.	Temp.		Data Temp.	Casing D		
No.	(Line) Size	(Orif	ice)		h <sub>w</sub>	o <sub>F</sub> .		1			Duration of Flow
SI	2"	SI		psig	II.W	r.	psig	F.	psig 717	F.	Hr.
1.	2"	3/4"		64		_60			64	60	3
3.											
<u>4.</u> <u>5.</u>								ļ			
_					]	LOW CAL	CULATION	ıs	<u> </u>	·	
No.				ressure Flow Temp. Factor psia Ft		Temp. tor	Gravity Compre		or Q-MCFPD		
$\frac{1}{2}$	12,3650				76	1.000	0	•9292	1.01		882
1. 2. 3. 4.											
5.											
Gravit	PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas695  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  Fc 5.551										
No.	Pt (psia)	Pt2	F <sub>c</sub> Q		(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub>	Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal P	1 - W I
1. 7 2. 3.	6	5,776	4,89	6 2	3,971	3.931	9	707	521,73	98.5	·
3. 4.											
5.											
Absolute Potential: 896 MCFPD; n 85  COMPANY Socony Mobil Oil Company, Inc.  ADDRESS p. O. Box 3371, Durango, Colorado  AGENT and TITLE Max Beazley - Prod. Engr. Max Early By Colorado											
COMPA	COMPANYREMARKS										
	NMOCC 4 EPNG Galloway 1 File 1 EPNG Parrish 1 GW: 1 EPNG Diep 1										

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- Pc 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg = Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{pv}$  Supercompressability factor.
- n \_ Slope of back pressure curve.

Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .