NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Pictured Cliffs County Rio Arriba

Initial ____ Annual ____ Special xx Date of Test 11/2/60

Company Socony Mobil Oil Co., Inc. Lease W.O. Hughes Well No. 4-A

Unit O Sec. 7 Twp. 24N Rge. 3W Purchaser El Paso Natural Gas Co.

Casing 5 1/2" Wt. 14# I.D. 5.012" Set at 3130' Perf. 3002' To 3043'

Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 3009' Perf. - To -

Gas Pay: From 3002' To 3042' L 3008' xG 0.695 -GL ____ Bar.Press. 12 Psia

Producing Thru: Casing ____ Tubing xx Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 10/19/57 Packer none Reservoir Temp. -

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Meter~~) Type Taps -

No.	Flow Data (~~Prover~~) (Line) Size	Flow Data (Choke) (~~Orifice~~) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						994	-	1004	-	
1.	2"	0.750	96	-	60	96	-	175	-	3 hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365	-	108	1.000	0.9292	-	1,241
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio -- cf/bbl. Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons -- deg. Specific Gravity Flowing Fluid 0.695
P_c - $(1-e^{-s})$ -- P_c 1016 P_c^2 1,032.3

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	187					35.0	997.3		0.184
2.									
3.									
4.									
5.									

Absolute Potential: 1,278 MCFPD; n 0.85
COMPANY SOCONY MOBIL OIL COMPANY, INC.
ADDRESS Box 778, Farmington, New Mexico
AGENT and TITLE H. H. Dvoracek Production Engineer
WITNESSED ____
COMPANY ____

REMARKS

Original Potential 11/4/57 - 846 Mcf/Day

NMOCC

RECEIVED
MAY 22 1961
OIL CON. COM.
DIST. 3