

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Formation Mesaverde County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 9/6/64
Company Socony Mobil Oil Co., Inc. Lease Cheney Federal Well No. 3
Unit B Sec. 17 Twp. 26 N Rge. 2 W Purchaser El Paso Natural Gas Co.
Casing 7 1/2" Wt. 10.5 I.D. _____ Set at 3966 Perf. 5461 To 5943
Tubing 2-3/8" Wt. 4.7 I.D. _____ Set at 5934 Perf. _____ To _____
Gas Pay: From 5461 To 5943 L 5934 xG .700 Est. GL _____ Bar. Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 8/30/64 Packer No Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	2"	0.750				1510		1510		
1.			185			185		640		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.	12.3650		197	.9905	.9636	1.022	2.376
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1,522 P_c² 2,316.5

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.	652					425.1	1691.4		
2.									
3.									
4.									
5.									

Absolute Potential: 2.766 MCFPD; n .75 $1.225 \cdot 75 = 1.1644$
COMPANY Socony Mobil Oil Co., Inc.
ADDRESS P.O. Box 778, Farmington, New Mexico
AGENT and TITLE RW Hensley Prod. Foreman
WITNESSED No
COMPANY _____
FMOC (4) FMB File (1) Fmm. (1) REMARKS _____
El Paso Nat. Gas (3)

