

NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-55
SEP 14 AM
MAINT. UNIT

Pool Basin Formation Dakota County Rio Arriba
Initial X Annual Special Date of Test 8/30/64
Company Socony Mobil Oil Co., Inc. Lease Jicarilla-Otero Well No. 11-28
Unit Sec. 28 Twp. 24N Rge. SW Purchaser El Paso Natural Gas Co.
Casing 5½ Wt. 15.5 I.D. Set at 6844 Perf. 6718 To 6735
Tubing 2-3/8 Wt. I.D. Set at 6717 Perf. To
Gas Pay: From To L xG .700 Est. GL Bar.Press. 12-0
Producing Thru: Casing Tubing X Type Well Single
Date of Completion: 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.	
1.	2"	0.750	76			1795		1785		
2.						76	58	409		3 Hrs.
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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		89	1.0019	.9636	1.012	1.075
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
P_c (1-e^{-s})
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1807 P_c 3265.2

No.	P _w P _c (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	P _w P _c
1.	821					177.2	3038.0		
2.									
3.									
4.									
5.									

Absolute Potential: 1,121 MCFPD; n 75
COMPANY Socony Mobil Oil Co., Inc.
ADDRESS P.O. Box 776, Farmington
AGENT and TITLE Prod. Foreman - RW Hensley
WITNESSED
COMPANY

REMARKS

Distro: NMOC (4)
El Paso Natural Gas (3)
Mobil, Farmington (1)
NM Kibre (1)
Well File (1)✓

