

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapacito Formation Pictured Cliffs County Rio Arriba
Initial _____ Annual _____ Special X Date of Test 10/17/61
Company Socomey Mobil Oil Co., Inc. Lease Jicarilla D Well No. 9
Unit E Sec. 13 Twp. 26N Rge. 3W Purchaser El Paso Natural Gas Co.
Casing 2-7/8" Wt. 6.5# I.D. 2.441 Set at 3767' Perf. 3684' To 3767'
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 3684 To 3767 L 3716 xG .680 -GL 2527 Bar.Press. 12 psi
Producing Thru: Casing X Tubing _____ Type Well _____
Date of Completion: _____ Packer _____ 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	251		55			861	251	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		263	1.0048	.9393	1.031	3164
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 5.551 (1-e^{-s}) .168
Specific Gravity Separator Gas .680
Specific Gravity Flowing Fluid _____
P_c 873 P_c² 762.1

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	P _w / P _c
1.	263	69.2	17.36	301.4	50.6	119.8	642.3		
2.									
3.									
4.									
5.									

Absolute Potential: 3660 MCFPD; n 85

COMPANY Socomey Mobil Oil Company, Inc.

ADDRESS P. O. Box 3371, Durango, Colorado

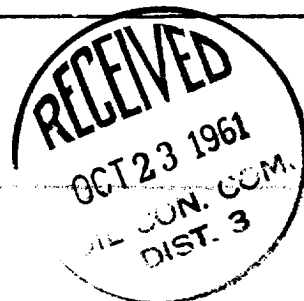
AGENT and TITLE R. W. Hensley, Fred. Engr.

WITNESSED _____

COMPANY _____

REMARKS

Dist: NMOCC 4
EPNO - Galloway 1
" Parrish 1
" Disp. 1
Fugtn 1
Dgo 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_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 .