

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 8-15-62
Company MURCO PETROLEUM CORP. Lease Trieb Federal Well No. 2-33-0
Unit 0 Sec. 33 Twp. 30 North Rge. 10 West Purchaser El Paso Natural Gas Company
Casing 5 1/4 Wt. 15 1/2 I.D. _____ Set at 7955 Perf. 6830 To 6845
Tubing 2 3/8 Wt. 4.7 I.D. _____ Set at 6909 Perf. _____ To 6909
Gas Pay: From 6830 To 6842 L _____ xG 6.650 -GL 4490 Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 8-6-62 Packer No Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Orifice)

Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(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				1930		1940		
1.						196		516		1
2.						129		361		2
3.						111		310		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		123	1	.9608	1.011	1477
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

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

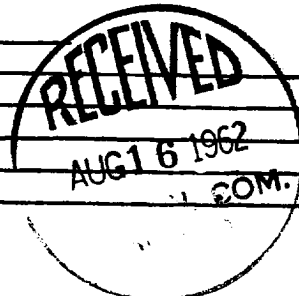
Specific Gravity Separator Gas .650
Specific Gravity Flowing Fluid _____
P_c 1952 P_c 3,810.304

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.	322					103,684	3,706,620		
2.									
3.									
4.									
5.									

Absolute Potential: 1518 MCFPD; n_g 0.75

COMPANY MURCO PETROLEUM CORP.
ADDRESS Postoffice Drawer P, Artes, New Mexico
AGENT and TITLE Don E. Jamieson, Field Foreman
WITNESSED _____
COMPANY _____

REMARKS



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 .