

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Tapacito Formation Pictured Cliffs County Rio Arriba
Initial I Annual _____ Special _____ Date of Test 12/8/57
Company Magnolia Petroleum Company Lease Jicarilla "C" Well No. 3 P.C.
Unit H Sec. 8 Twp. 26N Rge. 3W Purchaser Pacific Northwest
Casing 7 5/8" Wt. 24# I.D. 7.012 Set at 3920 Perf. 3,618 To 3,680
Tubing 2 3/8" Wt. 4.7# I.D. 1.995 Set at 3639 Perf. - To -
Gas Pay: From 3,618 To 3,680 L 3,639 xG - -GL - Bar.Press. -
Producing Thru: Casing _____ Tubing X Type Well G. G. Dual
Date of Completion: 10/31/57 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. -

OBSERVED DATA

Tested Through (Choke)Type Taps -

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	2"	0.750"	39	-	58	961	-	961	-	3 hrs.
2.						39	58	115	-	
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	-	51	1.0019	.9393	-	593
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 961 P_c 923.5

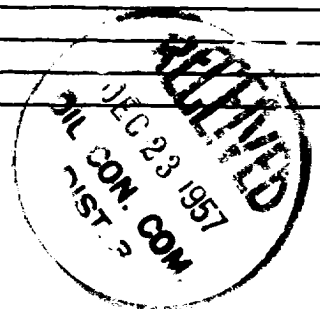
No.	P _w (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	121					161	907.4		
2.									
3.									
4.									
5.									

Absolute Potential: 602 MCFPD; n 0.85COMPANY MAGNOLIA PETROLEUM COMPANY
ADDRESS P. O. BOX 2406, MESA, NEW MEXICOAGENT and TITLE William R. Ruff, Jr.

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} - Supercompressibility 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 .

OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE
No. Copies _____
DATE _____
BY _____
RECEIVED _____

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Mesaverde Formation Mesaverde County Rio Arriba
Initial X Annual - Special - Date of Test 12/8/57
Company Magnolia Petroleum Company Lease Jicarilla "C" Well No. 3 H.V. - LT
Unit H Sec. 8 Twp. 26N Rge. 3W Purchaser Pacific Northwest
Casing 5 1/2" Wt. 14# I.D. 5. Set at 5876 Perf. 5,341' To 5,866'
Tubing 2 3/8" Wt. 4.7# I.D. 1.995 Set at 5319 Perf. - To -
Gas Pay: From 5,341 To 5,866 L 5,319 xG - GL - Bar.Press. -
Producing Thru: Casing - Tubing X Type Well G. G. Dual
Date of Completion: 10/31/57 Packer 5,309' Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. -

OBSERVED DATA

Tested Through ~~(Pressure)~~ (Choke) ~~x(Meter)~~Type Taps -

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Pressure) (Line) Size	(Choke) (Restriction) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						912	-			
1.	2"	0.750	0	-	-	0				open 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.	Flowed two hours and died						T.S.T.M.
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

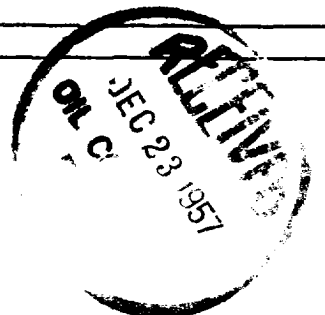
Gas Liquid Hydrocarbon Ratio - cf/bbl.
Gravity of Liquid Hydrocarbons - deg.
P_c - (1-e^{-s})

Specific Gravity Separator Gas -
Specific Gravity Flowing Fluid -
P_c 924 P_c -

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.									
2.									
3.									
4.									
5.									

Absolute Potential: - MCFPD; n -
COMPANY Magnolia Petroleum Company
ADDRESS P. O. Box, 2406, Hobbs, New Mexico
AGENT and TITLE W. H. King, Gas Engineer
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} - Supercompressibility 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 .

