

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Pictured Cliffs County Sandoval
Initial X Annual - Special - Date of Test 10-27-58
Company Magnolia Petroleum Company Lease Jicarilla "L" Well No. 1 PC-UT
Unit D Sec. 19 Twp. 23N Rge. 2W Purchaser -
Casing 5 1/2" Wt. 11# I.D. 5.012" Set at 3238' Perf. 3118' To 3129'
Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 3139' Perf. - To -
Gas Pay: From 3118' To 3129' L 3139' xG 0.680(est) GL 2134 Bar.Press. 12 psig
Producing Thru: Casing - Tubing X Type Well single
Date of Completion: 10-13-58 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. -

OBSERVED DATA

Tested Through (Proven) (Choke) (None) Type Taps -

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						754	-	790	-	
1.	2"	0.750"	49	-	61	49	61	104	-	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	-	61	0.9990	0.9393	-	708
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 802 P_c² 643.2

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.	116	-	-	-	-	13.5	629.7	-	-
2.									
3.									
4.									
5.									

Absolute Potential: 720 MCFPD; n 0.85

COMPANY MAGNOLIA PETROLEUM COMPANY
ADDRESS P. O. Box 2106, Hobbs, New Mexico
AGENT and TITLE -
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 .

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