NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba

Initial X Annual - Special - Date of Test 10/15/58

Company Magnolia Petroleum Company Lease Jicarilla "G" Well No. 8 LT-MV

Unit A Sec. 26 Twp. 27N Rge. 3W Purchaser Pacific Northwest Pipe Line Corp.

Casing 5" Wt. 15# I.D. 4.408" Set at 6260 Perf. 5667' To 6185'

Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 6184 Perf. - To -

Gas Pay: From 5667' To 6185' L 6184' xG 0.689(Est) -GL 4205 Bar.Press. 12 PSIA

Producing Thru: Casing - Tubing X Type Well GG Dual
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 9/20/58 Packer Yes Reservoir Temp. -

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps -

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) ~~(Orifice)~~ Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						1432	-	-	-	
1.	2"	0.750"	249	-	66	249	66	-	-	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	-	261	0.9943	0.9393	1.027	3095
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 0.680E
P_c 1444 P_c^2 2085.1

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	261	68.1	29.1	846.8	222.7	290.8	1794.3	-	-
2.									
3.									
4.									
5.									

Absolute Potential: 3459 MCFPD; n 0.75

COMPANY Magnolia Petroleum Company
ADDRESS P. O. Box 2406 Hobbs, New Mexico
AGENT and TITLE William A Morgan Jr. Gas Engr.
WITNESSED
COMPANY

REMARKS

RECEIVED
OCT 29 1958
OIL CON. COM.
DIST. 3

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.