

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Otero Extension Formation Chacra County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 5-9-60
Company Johnston-Shear Lease 24-5 Well No. 1-4
Unit D Sec. 4 Twp. 24N Rge. 5W Purchaser Not Connected
Casing 2 7/8 Wt. 6.5 I.D. 2.441 Set at 3762 Perf. 3508 To 3620
Tubing None Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 3508 To 3620 L 3508 xG 0.650 -GL 2280 Bar.Press. _____
Producing Thru: Casing X Tubing _____ Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer No Reservoir Temp. _____

OBSERVED DATA

Tested Through (None) (Choke) (None) 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.	
SI								625		
1.										
2.										
3.		3/4						30	69	3 hrs.
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.							
2.							
3.	12.365		42	0.9915	0.9608	1.008	499
4.							
5.							

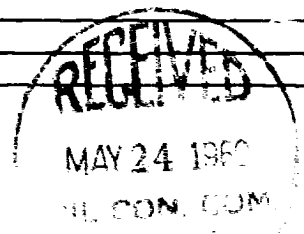
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 5.551 (1-e^{-s}) 0.153
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 637 P_c² 405.769

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.	42	1.764	2.770	7.673	1.174	2.938	402.831		1.0073
4.									
5.									

Absolute Potential: 502 MCFPD; n .85/ 1.0061COMPANY Johnston-ShearADDRESS 3010 Monte Vista Blvd., N.E., Albuquerque, New MexicoAGENT and TITLE W. R. Johnston, OperatorWITNESSED T. A. MorganCOMPANY Aspen Crude Purchasing 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 .

STATE OF NEW MEXICO		
OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
NUMBER OF COPIES RECEIVED		3
DISTRIBUTION		
SANTA FE		
MILE		
U.S.C.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
REGISTRATION OFFICE		
CERTIFICATE		