

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 San Juan
Initial X Annual _____ Special _____ Date of Test 1-21-57
Company Aztec Oil & Gas Company Lease Koch-State Well No. 1
Unit G Sec. 36 Twp. 29-N Rge. 9-W Purchaser - -
Casing 5 1/2" Liner 11# I.D. _____ Set at 4583 Perf. 3808 To 3830
3854 4390 4460
Tubing 2 3/8" Wt. 4.7# I.D. _____ Set at 4445 Perf. 4414 To 4426
Gas Pay: From 3808 To 3890 L _____ xG _____ -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well G G Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 1-12-57 Packer 2234 Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Prover~~) 9 days 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.	
1.		3/4"				1010	60	3 hour
2.						383	60	
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		395	1.00	0.961	1.043	1896
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

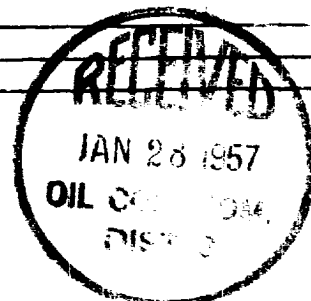
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) 0.189
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1025 P_c² 1050625

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.	395	156.025	16.032	2119	100.000	556.025	194.600	746	
2.									
3.									
4.									
5.									

Absolute Potential: 8601 MCFPD; n .75

COMPANY AZTEC OIL & GAS COMPANY
ADDRESS P O Box 786, Farmington, New Mexico
AGENT and TITLE ORIGINAL SIGNED BY BILL R. HASTINGS Production Engineer
WITNESSED Al Kendrick
COMPANY New Mexico Oil Conservation Commission

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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	3	
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To	Mr. [illegible]	
From	[illegible]	
Subject	[illegible]	
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Remarks	[illegible]	
Reporter	[illegible]	
File	[illegible]	✓