

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Sabote County San Juan
Initial X Annual _____ Special _____ Date of Test 11/9/60
Company Astec Oil and Gas Company Lease Robinson Well No. 3-3
Unit X P Sec. 15 Twp. 24N Rge. 13W Purchaser _____
Casing 4 1/2 Wt. 9.50 I.D. 4.090 Set at 6300 Perf. 6332 To 6418
Tubing 2 3/8 Wt. 4.70 I.D. 1.995 Set at 6082 Perf. Pin collar To _____
Gas Pay: From 6332 To 6418 L 6082 xG 0.65 (X) -GL 4063 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 11/2/60 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~6332~~ (Choke) ~~6332~~ 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						<u>1986</u>		<u>1986</u>		<u>7 days</u>
1.		<u>0.750</u>				<u>32</u>	<u>60(X)</u>	<u>358</u>		<u>2 hrs.</u>
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.	<u>12.35</u>		<u>64</u>	<u>1.0000</u>	<u>0.9608</u>	<u>1.000</u>	<u>767</u>
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 1938 P_c 1.755.844

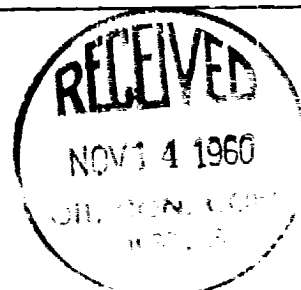
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	<u>370</u>					<u>136800</u>	<u>1.618.44</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 769 MCFPD; n 0.75COMPANY Astec Oil and Gas CompanyADDRESS Box 570, Farmington, New MexicoAGENT and TITLE ORIGINAL SIGNED BY L. M. STEVENSL. M. Stevens Dist. Engr.

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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