

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Astee-Pictured Cliffs Formation Pictured Cliffs County San Juan
Initial X Annual _____ Special _____ Date of Test 5-1-58
Company Pan American Petroleum Corp. Lease Abrams Gas Unit "D" Well No. 1
Unit I Sec. 29 Twp. 29N Rge. 10E Purchaser El Paso Natural Gas Company
Casing 5-1/2" Wt. 140 I.D. 5.012 Set at 1874 Perf. 1813 To 1836
Tubing 1-1/4" Wt. 2.30 I.D. 1.38 Set at 1819 Perf. 1813 To 1819
Gas Pay: From 1813 To 1836 L 1824 xG 0.69 (est) GL 1259 Bar.Press. 12
Producing Thru: Casing I Tubing _____ Type Well Gas - Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 4-24-58 Packer None Reservoir Temp. 94° F
NDB - 5548°

OBSERVED DATA

Tested Through (None) (Choke) (None) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut in	12 days				628		628		
1.	2"	1/4"	156		60 (est)	171	60 (est)	156	60 (est)	3
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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		168	1.000	0.9325	1.019	1974
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 640 P_c² 409,600

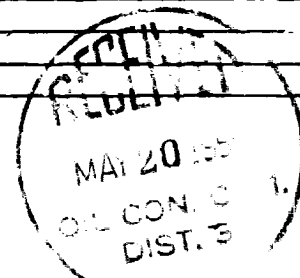
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						33,489	376,111		
2.									
3.									
4.									
5.									

Absolute Potential: 2.12 MCFPD; n 0.65COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS BOX 487, FARMINGTON, NEW MEXICOAGENT and TITLE R. M. BAUER, JR., FIELD ENGINEER

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 .

OIL CONSERVATION COMMISSION		
SANTA FE DISTRICT OFFICE		
WELL NO.	3	
WELL NAME		
WELL TYPE		
WELL STATUS		
WELL DEPTH		
WELL DIAMETER		
WELL Casing		
WELL Tubing		
WELL Completion		
WELL Production		
WELL Test		
WELL File		