Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office __Santa Fe__

Lease No. __SF-078132__

Unit __Annie L. Elliott "A"__

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	Report of potential test	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Annie L. Elliott "A"   Farmington, New Mexico   December 5, 19 61

Well No. __2__ is located __1085__ ft. from __[N]__ line and __1010__ ft. from __[E/W]__ line of sec. __11__

__NW/4 NW/4 of Section 11__   __T-29-N__   __R-9-W__   __N.M.P.M.__
(¼ Sec. and Sec. No.)   (Twp.)   (Range)   (Meridian)

__Blanco Pictured Cliffs__   __San Juan__   __New Mexico__
(Field)   (County or Subdivision)   (State or Territory)

The elevation of the derrick floor above sea level is __6273__ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

This is to report the following potential test:

Potential test November 22, 1961, flowed 1,044 MCF per day through 3/4" choke after 3 hours. Absolute open flow potential 1,059 MCF per day. Shut in casing pressure after 8 days 742 psig.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company __Pan American Petroleum Corporation__

Address __P. O. Box 480__

__Farmington, New Mexico__

__Attn: L. O. Speer, Jr.__

By __ORIGINAL SIGNED BY__
__R. M. Bauer, Jr.__

Title __Senior Petroleum Engineer__

GPO 862040

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Blanco Pictured Cliffs__ Formation __Pictured Cliffs__ County __San Juan__

Initial __X__ Annual_____ Special_____ Date of Test __November 22, 1961__

Company __Pan American Petroleum Corp.__ Lease __A. L. Elliott "A"__ Well No. __2__

Unit __D__ Sec. __11__ Twp. __29N__ Rge. __9W__ Purchaser __El Paso Natural Gas Company__

Casing __4-1/2"__ Wt. __10.5__ I.D. __4.052__ Set at __3027__ Perf. __2892__ To __2896__

Tubing __1-1/4"__ Wt. __2.4__ I.D. __1.380__ Set at __2916__ Perf. __——__ To __——__

Gas Pay: From __2892__ To __2896__ L __3097__ xG __.65__ EST __-GL __1962__ Bar.Press. __12__

Producing Thru: Casing __X__ Tubing_____ Type Well __Gas-Single__

Date of Completion: __11-14-61__ Packer __——__   Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. __——__

OBSERVED DATA

Tested Through (Bean) (Choke) (Nozzle)   Type Taps_____

No.	(Bean) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	Duration of Flow Hr.
						Tubing Data		Casing Data		
SI	8 Days					782		782		
1.	2"	3/4"	73			67		67	60°	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		67	1.0000	.9600	1.010	1044
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 __784__ P_c^2 __568,516__

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	$\frac{P_w}{P_c}$
1.						5801	558,715		
2.									
3.									
4.									
5.									

Absolute Potential: __1099__ MCFPD; n __0.85__
COMPANY __Pan American Petroleum Corporation__
ADDRESS __Box 480, Farmington, New Mexico__
AGENT and TITLE __R. R. Bunney, Jr.   Senior Petroleum Engineer__ RWB
WITNESSED_____
COMPANY_____

REMARKS
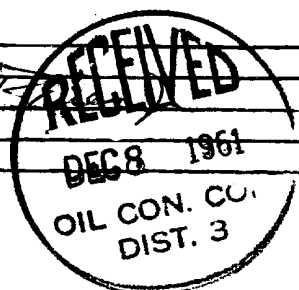
INSTRUCTIONS

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.