

# EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE August 29, 1961

Operator <b>El Paso Natural Gas Company</b>		Lease <b>San Juan 28-7 No. 125</b>	
Location <b>990'S, 1190'W, Sec. 12-27N-7W</b>		County <b>Rio Arriba</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Basin</b>	
Casing Diameter <b>4-1/2" O.D.</b>	Set At: Feet <b>7796</b>	Tubing Diameter <b>2-3/8" O.D.</b>	Set At: Feet <b>7730</b>
Pcy Zone: From <b>7512</b>	To <b>7700</b>	Total Depth <b>7802 c/o 7750</b>	Shut In <b>8-14-61</b>
Stimulation Method <b>Sand/Water Frac.</b>		Flow Through Casing <b>X</b>	

Choke Size, Inches <b>.75</b>		Choke Constant: C <b>12.365</b>	
Shut-in Pressure, Casing, PSIG <b>2421</b>	PSIG x 12 PSIA <b>2433</b>	Days Shut-in <b>15</b>	Shut-In Pressure, Tubing, PSIG <b>2504</b>
Flowing Pressure: P, PSIG <b>425</b>	PSIG x 12 PSIA <b>437</b>	Working Pressure: P <sub>w</sub> , PSIG <b>1289</b>	PSIG x 12 PSIA <b>1301</b>
Temperature <b>81 °F</b>	F <sub>g</sub> .9804	F <sub>pv</sub> from Tables <b>1.054</b>	Gravity <b>.742</b>
F <sub>g</sub> .9804		F <sub>g</sub> .9005	

CHOKE VOLUME  $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$ 

$$Q = (12.365)(437)(.9804)(.9005)(1.054)$$

5028

MCF/D

$$\text{OPEN FLOW } Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left( \frac{6,330,256}{4,637,655} \right)^n$$

$$(5028)(1.3649)^{.75} = (5028)(1.2625)$$

Aof = 6348

MCF/D

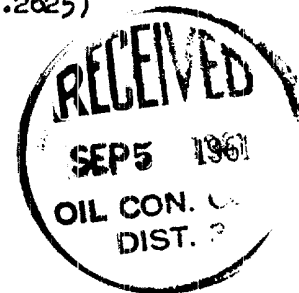
TESTED BY W. D. Dawson

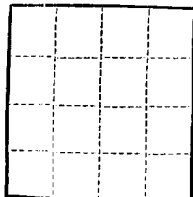
WITNESSED BY

Checked by: R. L. Nickell, Jr.

NOTE: Well blew a medium mist of water, with a slight amount of slugging, during entire test.

*Lewis D. Galloway*  
L. D. Galloway





(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLand Office **Santa Fe**  
Lease No. **079298-B**  
Unit **San Juan 28-7 Unit**

## 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	<b>Water Frac.</b>

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

September 7, 1961

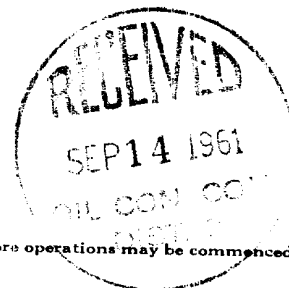
Well No. **125** is located **990** ft. from **XXX** line and **1190** ft. from **XX** line of sec. **12**  
(S) (W)  
**S.W. Section 12** **27-N** **7-W** **N.M.P.M.**  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Bain Dakota** **Rio Arriba** **New Mexico**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **6656** 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)

On 8-12-61 total depth 7802'. Temp Bridge Plug @ 7600'.  
Perf Graneros int 7512-18; 7533-39; 7546-52; 7558-64;  
Frac w/37,000 gal water, (7# Wi-4/1000 gal and 1% calcium chloride), 35,000# sand. Flushed w/5040 gal water. Max pr 3600#, BDP 800#, Tr pr 3500-3550-3600#. I.R. 21.3 BPM. Dropped 3 sets of 12 balls each - 4 stages.



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

Company **El Paso Natural Gas Company**Address **Box 990****Farmington, New Mexico**By **Original Signed R. G. MILLER**Title **Petroleum Engineer**