

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

Dual Completion

DATE November 9, 1956

Operator El Paso Natural Gas Company		Lease Ludwick #13	
Location 1750'N, 1720'E, Sec. 5-29-10		County San Juan	State New Mexico
Formation Mesaverde		Pool Blanco	
Casing: Diameter 7"	Set At: Feet 4200	Tubing: Diameter 2"	Set At: Feet 4642
Pay Zone: From 4262	To 4648	Total Depth 4894 c/o 4680	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750	Choke Constant: C 14.1605		5½" liner @ 4113 - 4894	
Shut-in Pressure, Casing, PSIG 623 (PC)	12 - PSIA 635	Days Shut-In 24	Shut-in Pressure, Tubing, PSIG 1164	12 - PSIA 1176
Flowing Pressure: P, PSIG 367	12 - PSIA 379		Working Pressure: P _w , PSIG Calculated	12 - PSIA 785
Temperature: T 82	F _{in} .75		F _{pv} (From Tables) 1.040	Gravity .715

CHOKE VOLUME $Q = C \times P_c \times F_i \times F_g \times F_{pv}$

$$Q = 14.1605 \times 379 \times .9795 \times .9161 \times 1.040$$

MCF/D

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

$$Aof = \left(\frac{1,382,976}{766,751} \right)^n (1.8036)^{.75} \times 5008 = 1.557 \times 5008$$

Aof **7797** MCF/DTESTED BY **K. C. McBride**WITNESSED BY **E. C. Arnold (MOC)**cc: (6) E. J. Coel, Jr.
(1) E. C. Arnold, Oil Conservation Commission


L. D. Galloway
 L. D. Galloway

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
(Revised 7/1/52)

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, N.M.

December 5, 1956

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

El Paso Natural Gas Co.

Ludvick

Well No. 13 (FM), in SW $\frac{1}{4}$ NE $\frac{1}{4}$,

(Company or Operator)

(Lease)

G

Sec. 5

T. 29N

R. 10W

NMPM, Aztec P.G.

Pool

Unit Letter

San Juan

County. Date Spudded. 7-6-56

Date Completed. 10-16-56

Please indicate location:

D	C	B	A
E	F	G X	H
L	K	J	I
M	N	O	P

1750'N, 1720'E

Casing and Cementing Record

Size	Feet	Sax
<u>10 3/4</u>	<u>162'</u>	<u>125</u>
<u>7"</u>	<u>4190'</u>	<u>300</u>
<u>5 1/2</u>	<u>781'</u>	<u>180</u>
<u>2"</u>	<u>4632'</u>	<u>---</u>

Elevation. 5878' Total Depth. 4894' P.B. 4680'

Top oil/gas pay. 2308' (Perf.) Name of Prod. Form. Pictured Cliff

Casing Perforations: 2308-2318, 2323-2331. or

Depth to Casing shoe of Prod. String. 4200'

Natural Prod. Test. BOPD

based on. bbls. Oil in. Hrs. Mins.

Test after acid or shot. BOPD

Based on. bbls. Oil in. Hrs. Mins.

Gas Well Potential. A.O.F. 2,290 MCF/D. Ch. Volume - 2,173 MCF/D.

Size choke in inches. 3/4"

Date first oil run to tanks or gas to Transmission system: w/o Pipeline

Transporter taking Oil or Gas: El Paso Natural Gas Company

Remarks:

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved: DEC 6 1956, 19

OIL CONSERVATION COMMISSION

By: [Signature]

Title PETROLEUM ENGINEER DIST. NO. 3

By: [Signature]

(Signature)

Title. Petroleum Engineer

Send Communications regarding well to:

Name. E. J. Coal

Address. Box 997, Farmington, N.M.

