

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 079729
Unit San Juan 28-4 Unit
14-08-001-933

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	SEP 16 1958
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	U. S. GEOLOGICAL SURVEY
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	FARMINGTON, NEW MEXICO
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	Water Frac.	X

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

September 12, 1958

Well No. 17-20 is located 1150 ft. from [N] line and 890 ft. from [E] line of sec. 20

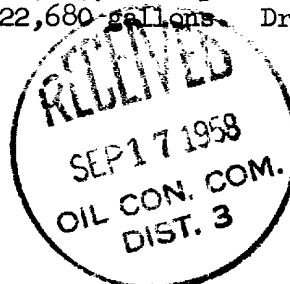
NE/4 Sec. 20 28N 4W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Blanco San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 7340 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)

9-1-58 T.D. 6690'. C.O.T.D. 6650'. Water fractured Point Lookout perf. int. (2 DJ/ft) 6454-74; 6498-6516; 6546-70; 6580-98; 6612-34 w/58,280 gallons water & 60,000# sand. BD pr. 1300#, max. pr. 2600#, avg. tr. pr. 1900#. I.R. 72 BPM. Flush 22,680 gallons. Dropped 2 sets of 50 balls for 3 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 997
Farmington, New Mexico
Original Signed By: D. W. Meehan
By _____
Title Petroleum Engineer

REPORT OF THE INTER-
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DEPARTMENT OF THE INTERIOR
OF AGRICULTURE

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EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 22, 1958

Operator El Paso Natural Gas		Lease San Juan 28-4 Unit No. 17-20	
Location 1150N, 890E; 20-28-4		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing Diameter 7-5/8	Set At: Feet 4461	Tubing Diameter 2"	Set At: Feet 6592
Pay Zone: From 6454	To 6634	Total Depth 6690 c/o 6639	Shut-in 9/4/58
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant, C 12.365	5-1/2 liner 4415 - 6684	
Shut-in Pressure, Gas 1166	PSIG - 12 - PSIA 1178	Days Shut-in 18	Shut-in Pressure, Tubing 1164
Flowing Pressure, P 207	PSIG - 12 - PSIA 219		Working Pressure, P _w 567
Temperature, T 68	F - 12 - F .75	Flow From Tables 1.022	Gravity .684

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

$$Q = 12.365 \times 219 \times .9924 \times .9393 \times 1.022$$

2580

MCF D

$$OPEN FLOW AS FLOW = \left(\frac{P_1^2 - P_2^2}{P_1 - P_2} \right)^n$$

$$Q_{AS FLOW} = \left(\frac{1,387,684}{1,052,443} \right)^n$$

$$(1.3185)^{.75} (2580) = (1.2302)(2580)$$



$$Q_{AS FLOW} = 3174 \text{ MCF D}$$
TESTED BY **S. V. Roberts**WITNESSED BY **Mr. Robert Meize (PNW)**

Lewis D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION**AZTEC DISTRICT OFFICE**

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