



COPY TO D.C.C.

IN REPLY REFER TO: ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 965
Farmington, New Mexico

July 10, 1956

El Paso Natural Gas Company
Box 997
Farmington, New Mexico

Re: Santa Fe 080670
14-08-001-1054

Gentlemen:

Receipt is acknowledged of your "Notice of Intention to Drill" dated July 5, 1956 covering your well No. 8 San Juan 27-4 Unit in SW¹ sec. 32, T. 27 N., R. 4 W., N. M. P. M., Rio Arriba County, New Mexico, Wildcat pool.

Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations" revised May 25, 1942, a copy of which will be sent to you on request, and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.
2. Furnish copies of all logs.

Very truly yours,

(Orig. Sgd.) P. T. McGRATH

P. T. McGrath
District Engineer

PTMcGrath:as



IN REPLY REFER TO:

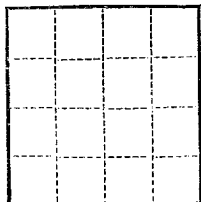
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 080670
Unit San Juan 27-4 Unit
14-00-001-1054



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			

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

July 5, 1956

Well No. 6 is located 947 ft. from S line and 1800 ft. from E line of sec. 32
SW Section 32 27N 4W NMPH
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Rio Arriba New Mexico
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 7119 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)

It is intended to drill a well thru the Pictured Cliff formation using rotary tools and to perforate and water fracture possible producing zones. Estimated Total Depth 4005'.

Casing Program:

9 5/8" at 120' with 125 sacks regular cement circulated to surface.
5 1/2" at 4005' with 75 sacks regular cement, 75 sacks Pozmix.

The SW/4 of Section 32 is dedicated to this well.
SW/4, SP 080670.

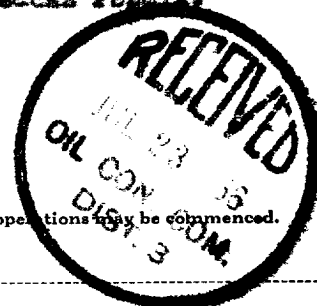
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company El Paso Natural Gas Company

Address Box 997

Farmington, New Mexico

By E. S. Oberly
Title Petroleum Engineer





NEW MEXICO
OIL CONSERVATION COMMISSION

WELL LOCATION AND/OR GAS PRORATION PLAT

JUNE 27, 1956

OPERATOR EL PASO NATURAL GAS COMPANY SAN JUAN 27-4 UNIT SF 080670

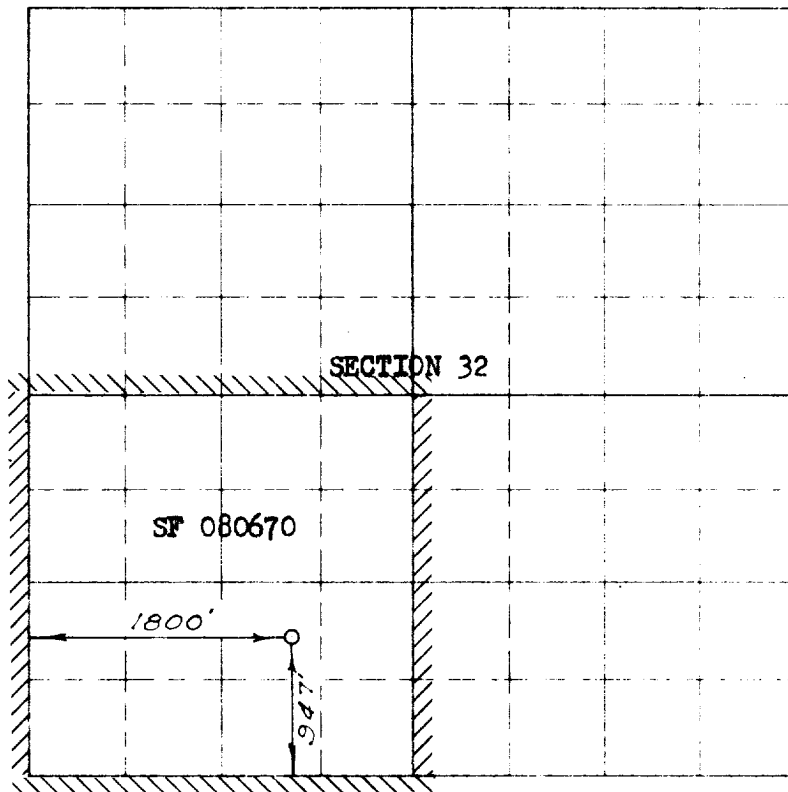
WELL NO. 8 SECTION 32 TOWNSHIP 27-N RANGE 4-W

SUBSECTION 947 DIST. SOUTH 1800 WEST

RIO ARriba WILDCAT 7109

NAME OF WELL PICTURED CLIFF NEW-BRAND 160 ACRES
(1883 PLAT)

Note: All distances must be from outer boundaries of section.



Scale: 1 inch = 1 mile

NOTE

This section of
form is to be used
for gas wells only

This is to certify that the above plat was prepared from
field notes of actual surveys made by me or under my
supervision and that the same are true and correct to the
best of my knowledge and belief.

Date Surveyed JUNE 21, 1956

E. O. Walker
Registered Professional Engineer and/or Land Surveyor



1. Is this well a Dual Comp. ☒

Yes _____ No _____

2. If the answer to Question 1
is yes, are there any other dually
completed wells within the
dedicated acreage.

Yes _____ No _____

Name E. O. Walker

Position Petroleum Engineer

Representing El Paso Natural Gas Co.

Address Box 997, Farmington, N.M.

(Seal)

Farmington, New Mexico

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 4, 1956

Operator El Paso Natural Gas Company		Lease San Juan 27-4 Unit # 8	
Location 1800'W, 947'S, Sec. 32-27-4		County Rio Arriba	State New Mexico
Formation Pictured Cliff		Pool Wildcat	
Casing: Diameter 5½	Set At: Feet 4007	Tubing: Diameter 2"	Set At: Feet 3956
Pay Zone: From 3924	To 3956	Total Depth: 4007 - c/o - 3966	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant, C 14.1605		
Shut-In Pressure, Casing, PSIG 1011	PSIA 1023	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 1011
Flowing Pressure, Casing, PSIG 111	PSIA 123		Working Pressure, Pw, PSIG 131
Temperature, T, F 61			Gravit. 600
	0.850	Fpv (From Tables) 1.010	

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

$$Q = 14.1605 \times 123 \times .9990 \times 1 \times 1.010 = 1757 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{1,046,529}{1,026,080} \right)^n \times 1.0199^{.85} \times 1757 = 1.0169 \times 1757$$

$$A_{of} = 1787 \text{ MCF/D}$$

Prepared by: **Tom Grant**

Witnessed by:



L. D. Galloway
L. D. Galloway

By:

H. E. Kendrick

OIL CONSERVATION COMMISSION	
AZTEC DISTRICT OFFICE	
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DISTRICT	
Operator	
Santa Fe	/
Proration Office	
State Land Office	
U. S. G. S.	/
Transporter	
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