

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

January 29, 1958

El Paso Natural Gas Company
Box 997
Farmington, New Mexico

Attention: Mr. E. S. Oberly

Administrative Order NSL-130

Gentlemen:

Reference is made to your application for approval of an unorthodox well location for your Schwerdtfeger Well No. 12-A to be located 500 feet from the South line and 2350 feet from the West line and in the SE/4 SW/4 of Section 6, Township 27 North, Range 8 West, adjacent to the Blanco Mesaverde Pool, San Juan County, New Mexico.

It is our understanding that this unorthodox well location is based upon extreme topographic conditions in the SW/4 of said section.

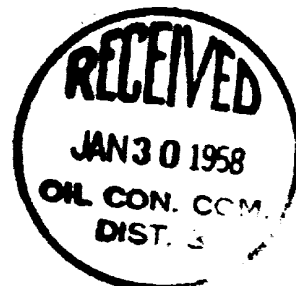
Inasmuch as you furnished waivers from the offset operators, it is possible for immediate approval to be granted. Therefore, by authority granted me under provisions of Rule 104 (f) of the New Mexico Oil Conservation Commission, you are hereby granted an exception to Rule 1 (c) of Order R-110 as amended by Order R-397 for the above described unorthodox well location. You must also obtain like approval from the U. S. Geological Survey.

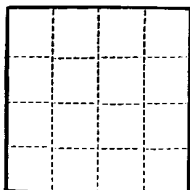
Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

DSN:omg

cc: Oil Conservation Commission, Aztec
U. S. Geological Survey, Farmington





(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 079319
Unit Schwerdtfeger

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<input checked="" type="checkbox"/>
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)

February 25, 1958

Well No. 12-A is located 300 ft. from S line and 2350 ft. from W line of sec. 6
SW Sec. 6 (¼ Sec. and Sec. No.)
Blanco Ext. (Field)
27N (Twp.) 6W (Range) N.M.P.M. (Meridian)
San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 6757 ft.

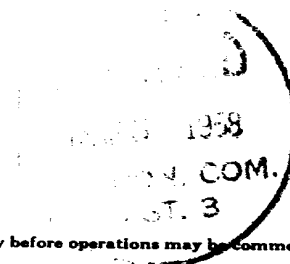
DETAILS OF WORK

(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 2-19-58, Total Depth 5066'.
 Ran 123 joints 7 5/8", J-53, 26.40#, Casing (5066') set at 5076' with 100 sacks regular cement, 100 sacks Fomax, 50# Floccale and 2# Gel, followed with 50 sacks Neat cement.

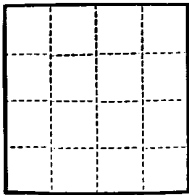
Held 1000#/30 minutes.

Top of cement by temperature survey at 4150'.



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 ORIGINAL SIGNED W.E. MCANALLY
 Title Petroleum Engineer



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 079319
Unit Schwerdtfeger

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	<u>Water Free.</u>

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

February 25, 19 50

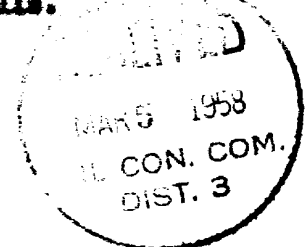
Well No. 12-A is located 500 ft. from S line and 2350 ft. from W line of sec. 6
SW Sec. 6 27N 24 N.M.P.M.
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Blanco Ext. San Juan New Mexico
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6757 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)

2-24-50 Total depth 5262'. Plug back Total Depth 5262'.
 Water fractured Point Lockout perf. int. 5172-5180; 5195-5200;
5214-5230; 5250-5270; 5276-5282; 5304-5314; 5340-5356
 w/54,700 gallons water and 55,000# sand. 20 pr. 1700#, max. pr.
 2500#, avg. fr. pr. 500, 700, 850, 1000, 2500#. 1. R. 52 Mils./min.
 Flush 10,400 gallons. Dropped four sets of 20 balls.



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
Box 997
 Address Farmington, New Mexico

By ORIGINAL SIGNED H.E. McANALLY
 Title Petroleum Engineer

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE April 11, 1958

Operator El Paso Natural Gas		Lease Schwerdtfeger No. 12-A	
Location 500S, 2350W, 6-27-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 5066	Tubing: Diameter 2"	Set At: Feet 5344
Pay Zone: From 5172	To 5356	Total Depth: 5389	2/28/58 Shut-in
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 5017 to 5388	
Shut-In Pressure, Casing, PSIG 1045	PSIA 1057	Days Shut-In 429	Shut-In Pressure, Tubing, PSIG 1045
Flowing Pressure: P 417	PSIG 429	Working Pressure: P _w 883	PSIG 895
Temperature: T 54	F 75	F _{pv} (From Tables) 1.042	Gravity 0.637

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$
 $Q = 12.365 \times 1057 \times 1.0058 \times 0.972 \times 1.042 = 13,314 \text{ MCF/D}$

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

$$Aof = \left(\frac{1117249}{316224} \right)^n (3.5330)^{.75} \times 13,316 = 2.5752 \times 13314$$

 $Aof = 34,286 \text{ MCF/D}$
TESTED BY Jess Goodwin

WITNESSED BY _____

Checked By: Tom Grant

Lewis D. Galloway
L. D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE April 11, 1958

Operator El Paso Natural Gas		Lease Schwerdtfeger No. 12-A	
Location 500S, 2350W, 6-27-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 5066	Tubing: Diameter 2"	Set At: Feet 5344
Pay Zone: From 5172	To 5356	Total Depth: 5389	Shut-In 2/28/58
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 5017 to 5388	
Shut-In Pressure, Casing, PSIG 1045	PSIG - 12 = PSIA 1057	Days Shut-In	Shut-In Pressure, Tubing, PSIG - 12 = PSIA 1057
Flowing Pressure, P, PSIG 417	PSIG - 12 = PSIA 429	Working Pressure: P _w 883	PSIG - 12 = PSIA 895
Temperature: T 54	75	Fpv (From Tables) 1.042	Gravity 0.637

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

$$Q = 12.365 \times 429 \times 1.0058 \times 0.9721 \times 1.042 = 5404 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1117249}{316224} \right)^n (3.5330)^{.75} \times 13,316 = 2.5752 \times 1314$$

$$Aof = 13,916 \text{ MCF/D}$$

TESTED BY Jess Goodwin

WITNESSED BY _____

Checked By: Tom Grant

Lewis D. Galloway
L. D. Galloway

