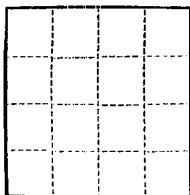


(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 079232
Unit Polack



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)

January 29, 1958

Well No. 13-C(HM) is located 900 ft. from S line and 800 ft. from W line of sec. 29

SW Sec. 29 27N 0W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Blanco Ext. & So. Blanco P.C. San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6395 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

It is intended to drill & dual complete a well in the Pictured Cliffs formation & Mesa Verde formation. Mud circulation will be used thru the Pictured Cliffs formation & set intermediate casing. Gas circulation will be used thru the Mesa Verde & a production liner will be set. Possible productive intervals will be perforated & fractured. Estimated Total Depth 4849'.

Casing Program:

10 3/4" at 170' with 125 sacks cement circulated to the surface.

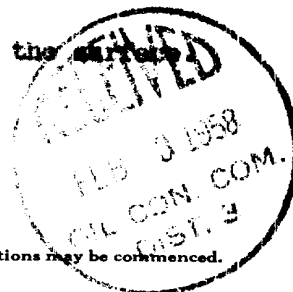
7 5/8" at 2537' with 250 sacks cement.

5 1/2" liner at 4849' with 300 sacks cement.

The W/2 of Section 29 is dedicated to the Mesa Verde.

The SW/4 of Section 29 is dedicated to the Pictured Cliffs

W/2 SF 079232



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 D. C. Johnston

Title Petroleum Engineer

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date **JANUARY 28, 1958**

Operator **EL PASO NATURAL GAS COMPANY** Lease **BOLACK** SF **079232**
 Well No. **13-C (PH)** Unit Letter **M** Section **29** Township **27 N** Range **8 W** NMPM
 Located **960** Feet From **SOUTH** Line **800** Township **WEST** Line
 County **SAN JUAN** G. L. Elevation **6385** Deeded Acreage **320 & 160** Acre
 Name of Producing Formation **MESA VERDE & PICTURED CLIFF** Pool **BLANCO EXT. & SO. BLANCO PC**

1. Is the Operator the only owner in the deeded acreage outlined on the plat below?
 Yes ☒ No ☐
2. If the answer to question one is "no", have the interests of all the owners been consolidated by some arrangement or otherwise? Yes ☐ No ☐ If answer is "Yes", Type of Consolidation.
3. If the answer to question two is "no", list all the owners and their respective interests below:

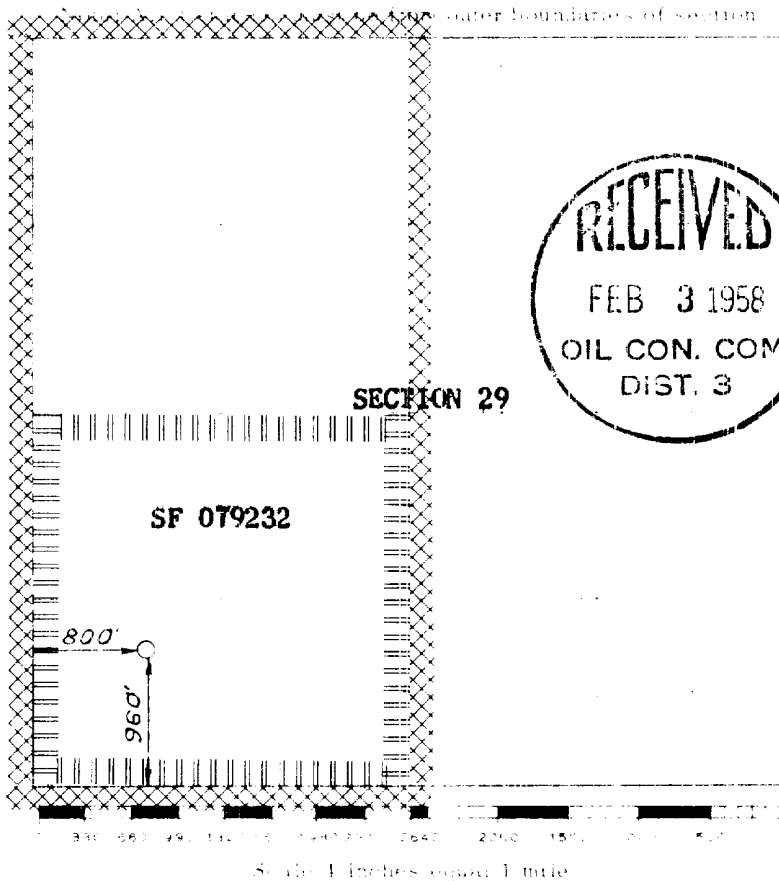
Owner

Land Description

Section B.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

El Paso Natural Gas Company
 (Operator)
 Original Signed **D. C. Johnston**
 Representative
 Box **997**
 Address
Farmington, New Mexico



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.

Signed

By

NOVEMBER 20, 1957

Farmington, New Mexico

David O. Fisher
 Registered Professional Engineer and/or Land Surveyor

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

74-071-01.

Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Black Well No. 15-C (M)
Unit M Sec. 29 Twp. 27 Rge. 0 Pay Zone: From 4630 To 4764
Casing: OD 9-1/2 WT. 15-1/2 Set At 4025 Tubing: OD 2 WT. 4.7 T. Perf. 4721
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .730 Estimated _____
Date of Flow Test: From 10/22/58 To 10/30/58 * Date S.I.P. Measured 7/8/58 (16 days)
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.03) ² x sp. const. 10 = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1115 psig + 12 = 1125 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1125 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 501 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 563 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{320}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 320 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{304}$ MCF/day.
.9331
.9494

SUMMARY

P_c = 1125 psia
Q = 320 Mcf/day
P_w = 499 psia
P_d = 563 psia
D = 304 Mcf/day

DUPLICATE COPY

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kenrick
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>1446</u>	<u>.222</u>	<u>9,054</u>	<u>2010</u>	<u>147009</u>	<u>149019</u>	<u>499</u>

D at 500 = 316

