

OIL CONSERVATION COMMISSION
Aztec DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE September 17, 1963

Re: Proposed NSP _____

Proposed NWU _____

Proposed NSL _____

Proposed NFO _____

Proposed DC XXXX

Gentlemen:

I have examined the application dated September 12, 1963
for the El Paso Natural Gas Company San Juan 32-7 Unit K-23-32N-7W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Well # 39

Yours very truly,

A. R. Kendrick
A. R. Kendrick

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Blanco Mesa Verde & Basin Dakota		County San Juan		Date September 12, 1963
Operator El Paso Natural Gas Company		Lease San Juan 32-7 Unit		Well No. 39 (MD)
Location of Well K	Unit 23	Section 32N	Township 7N	Range 7W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☒ NO ☐

2. If answer is yes, identify one such instance: Order No. **DC-471** ; Operator, Lease, and Well No.:
DC-698

El Paso Natural Gas Company - Allison Unit #11-X (MD) & Allison Unit #17 (MD)

3. The following facts are submitted:		Upper Zone	Lower Zone
a. Name of reservoir	Mesa Verde	Dakota	
b. Top and Bottom of Pay Section (Perforations)	5808-5860	8096-8222	
c. Type of production (Oil or Gas)	Gas	Gas	
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	

4. The following are attached. (Please mark YES or NO)

Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.

Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.

No c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*

Yes d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

N

O

N

E



6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☐ NO ☐ . If answer is yes, give date of such notification _____.

CERTIFICATE: I, the undersigned, state that I am the **Division Petroleum Engr.** of the **El Paso Natural Gas Co.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

ORIGINAL SIGNED E. S. OBERLY

Signature

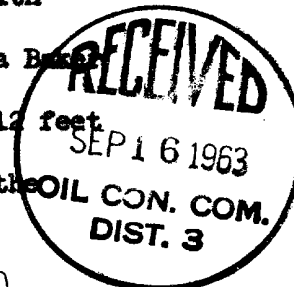
* Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

STATE OF NEW MEXICO)
COUNTY OF SAN JUAN)

I, Forrest H. Wood, being first duly sworn upon my
oath depose and say as follows:

I am an employee of El Paso Natural Gas Company and
that on August 5, 1963, I was called to the location of the
El Paso Natural Gas Company San Juan 32-7 Unit #39 (MD) Well
located in the SW/4 of Section 23, Township 32 North, Range
7 West, N.M.P.M., for advisory service in connection with
installation of a production packer. In my presence, a Baker
Model "N" Production Packer was set in this well at 6012 feet
in accordance with the usual practices and customs of the
industry.



Forrest H. Wood

Subscribed and sworn to this 13th day of September, 1963.

Alvin G. Luicks
Notary Public in and for San Juan County,
New Mexico.

My commission expires October 5, 1964.

STATE OF NEW YORK

IN SENATE

January 1, 1901.

REPORT OF THE

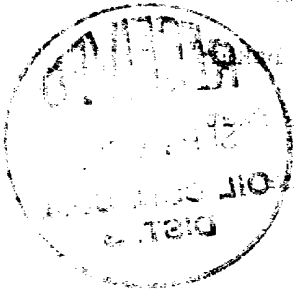
COMMISSIONER OF THE LAND OFFICE

IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE

ON JANUARY 1, 1900.

ALBANY: J. B. LIPPINCOTT & CO., PRINTERS.

1901.



JOHN H. HANCOCK

Commissioner of the Land Office

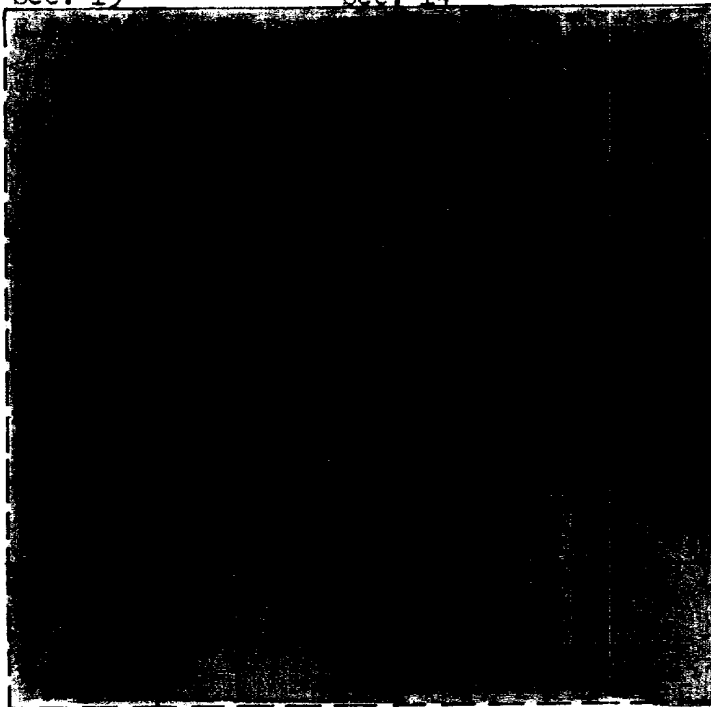
ALBANY, N. Y., JANUARY 1, 1901.

Very respectfully,
JOHN H. HANCOCK

Plat showing location of dually Completed
El Paso Natural Gas Co. San Juan 32-7 Unit #39 (MD)
and Offset Acreage

Sec. 15

Sec. 14



T-32-N, R-7-W



EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE
DRAWN BY

DATE
CHECKED BY

No.

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. San Juan 32-7 Unit #39 (MD)

Dual String
Xmas Tree

Zero reference point 10.0' above top
flange of tubing hanger

10 3/4", 32.75#, H-40 casing set at 340' w/230 sacks cement
circulated to surface.

7 5/8", 26.40#, J-55 casing set at 3802' w/450 sacks cement.

1 1/4", 2.35#, J-55 tubing set at 5841'.

Mesa Verde perforations 5808-18, 5850-60 w/2 SPF; fractured
with water and sand.

Baker Model "N" Production Packer set at 6012'.

4" Liner hanger set at 8006'

5 1/2", 15.50# & 17# J-55 casing set at 8065' w/495 sacks
cement. Top of cement by B & R survey at 3100'.

2 1/16", 3.25# Integral joint tubing set at 8126'.

Dakota perforations 8096-8104, 8144-48, 8162-70, 8218-22',
fractured with water & sand.

4", 11.34# Hydril liner set from 8006' to 8265' w/50 sacks cement.
Top of cement at 7815'.

T.D. 8265'



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 21, 1963

Operator El Paso Natural Gas Company	Lease San Juan Unit 32-7 No. 39 (MV)
Location 1650'S, 1840'W, Sec. 23-32-7	County San Juan State New Mexico
Formation Mesa Verde	Pool Blanco
Casing Diameter 5.50	Tubing Diameter 1.660
Set At: Feet 8054	Set At: Feet 5829
Flow Line From 5808	Total Depth 8055
Production Method Sand/Water Frac.	Flow Through Casing X
	Flow Through Tubing 8-7-63

Choke Size, inches 0.75	Choke Constant: C 12.365	Baker Model "N" Packer at 6011'.
Shut-In Pressure, Casing, PSIG 1130	PSIG + 12 = PSIA 1142	Shut-In Pressure, Tubing, PSIG 1130
Flowing Pressure: P 241	PSIG + 12 = PSIA 253	Working Pressure: Pw, PSIG 282
Temperature 74	.9868	Gravity .650
	.75	.9608
	1.023	

Initial SIPT (DK) = 2717 psig

Final SIPT (DK) = 2736 psig

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

$$Q = (12.365)(253)(.9868)(.9608)(1.023)$$

3034

MCF/D

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

$$Aof = \left(\frac{1,304,164}{1,217,728} \right)^n (1.0709)^{.75} (3034) = (1.0526)(3034)$$

Aof

3194

MCF/D



TESTED BY **D. Roberts & D. Mortensen**

Checked by:
~~XXXXXXXXXX~~

H. E. McAnally

Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 14, 1963

Operator El Paso Natural Gas Company		Lease San Juan Unit 32-7 No. 39 (DK)	
Location 1650'S, 1840'W, Sec. 23-32-7		County San Juan	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4"	Set At: Feet 8265	Tubing: Diameter 2.0625	Set At: Feet 8114
Pay Zone: From 8096	To 8222	Total Depth: 8266	Shut In 8-7-63
Stimulation Method Sand/Water Frac.		Flow Through Casing X	

Choke Size, Inches 0.75	Choke Constant: C 12.365	Baker Model "N" Packer at 6011'.	
Shut-In Pressure, Casing, PSIG 1082 (MV)	• 12 = PSIA 1094	Days Shut-In 7	Shut-In Pressure, Tubing, PSIG 2509 (DK)
Flowing Pressure: P, PSIG 82	• 12 = PSIA 94	Working Pressure: Pw, PSIG Calculated	• 12 = PSIA 276
Temperature: °F 77	n .9840	Fpv (From Tables) 1.010	Gravity .700
Fg 0.750		Fg .9258	

INITIAL SIPT (MV) 1082 psig

FINAL SIPC (MV) 1088 psig

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

$$Q = (12.365)(94)(.9840)(.9258)(1.010)$$

1069

MCF/D

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

$$Aof = \left(\frac{6,355,441}{6,279,265} \right)^n (1.0121)^{.75} (1069) = (1.0091)(1069)$$

Aof = 1079

MCF/D

NOTE: Unloaded large slug of water, distillate and sand after 5 minutes. Then blew medium fog. DK is very wet.

TESTED BY Don Mortensen

Calculated by: T. B. Grant, Jr.

XXXXXXXXXX


Lewis D. Galloway
Lewis D. Galloway