

OIL CONSERVATION COMMISSION
1000 Rio Brazos Rd.
Aztec, New Mexico

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 12-6-61

RE: Proposed NSP _____

Proposed NSL _____

Proposed NFO _____

Proposed DC ✓

Gentlemen:

I have examined the application dated 11-30-61
for the EPING 5427-5 #8(PM) L-32-27-5
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

OIL CONSERVATION COMMISSION

A. R. Kendrick

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name South Blanco Pictured Cliffs & Blanco Mesa Verde		County Rio Arriba	Date November 30, 1961
Operator El Paso Natural Gas Company	Lease San Juan 27-5 Unit		Well No. 8 (FM)
Location Unit L	Section 32	Township 27N	Range 5W

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-432**; Operator, Lease, and Well No.:

El Paso Natural Gas Company San Juan 27-4 Unit #24 (FM)

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of Pay Section (Perforations)	3238 - 3284	4930 - 5468
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.*

☒ **No** 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.

Malco - Box 660, Roswell, New Mexico

Northwest Production Company, 520 Sims Building, Albuquerque, New Mexico

Occidental Oil & Gas Company, 8255 Beverly Blvd., Los Angeles 48, California



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 **November 30, 1961**.

CERTIFICATE: I, the undersigned, state that I am the **Area 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. ODRLY

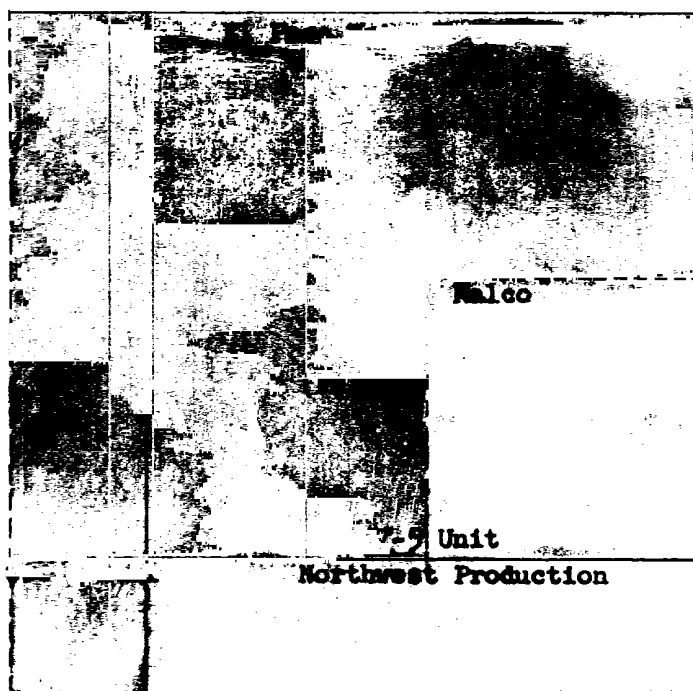
Signature

* 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.

PLAT SHOWING LOCATION OF DUALY COMPLETED
 El Paso Natural Gas Co. San Juan 27-5 Unit No. 8 (PM)
 and Offset Acreage

1



EL PASO NATURAL GAS COMPANY
 EL PASO, TEXAS

SCALE

DATE

No.

DRAWN BY

CHECKED BY

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 15, 1961

El Paso Natural Gas Company

1650'S, 1090'W, Sec. 32-27N-5W

Pictured Cliffs

7"

3230

Sand/Water Frac.

Set At Feet

4800

3284

Lease

San Juan 27-5 No. 8 (PC) (OWWO)

County

Rio Arriba

State

New Mexico

Pool

So. Blanco PC

Tubing Diameter

1-1/4

Test Depth

5526 C/O 5492

Flow Through Casing

X

Set At Feet

3189

Test In

9-21-61

Flow Through Tubing

.75

1050 (PC)

107

55

12.365

1062

199

.85

Days Shut in

55

4-1/2" O.D. Liner 4857 to 5526

Prod. Pkr. at 4436

Shut-in Pressure, Test

1050 (PC)

Working Pressure, Flow

199

Flow From Tables

1.020

PSIG 12 PSIA

1062

PSIG 7 PSIA

211

Flow To

.650

Fig

.9608

Initial SIPT (MV) = 992 psig

Final SIPT (MV) = 992 psig

Flow From Tables, Flow From Tables, Flow From Tables

(12.365)(199)(1.0010)(.9608)(1.020)

2414

MCF/D

$$\left(\frac{1,127,844}{1,083,323} \right)^n$$

$$(1.0410)^{.85}(2414) = (1.0348)(2414)$$

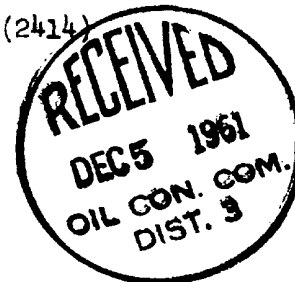
2498

MCF/D

A. F. Headrick

By A. F. Lawson

Louis D. Galloway
Louis D. Galloway



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 1, 1961

DUAL COMPLETION

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 8 (OMVO) (MV)	
Location SW/4 Sec. 32-27N-5W (1650'S, 1090'W)		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4-1/2"	Set At: Feet 5526	Tubing: Diameter 2-3/8" O.D.	Set At: Feet 5439
Pay Zone: From 4930	To 5468	Total Depth: 5526 c/o 5492	Shut In 9-21-61
Stimulation Method Sand/Water Frac.		Flow Through Tubing X	

Choke Size, Inches .75		Choke Constant: C 12.365		4-1/2" O.D. Liner from 4857 to 5526. Prod. Pkr. at 4436	
Shut-In Pressure, Casing, 1041 (PC)	PSIG + 12 - PSIA 1053	Days Shut-In 41	Shut-In Pressure, Tubing 990 (MV)	PSIG + 12 - PSIA 1002	
Flowing Pressure: P 223	PSIG + 12 - PSIA 235		Working Pressure: Pw Calc.	PSIG + 12 - PSIA 468	
Temperature: T 59 F	n Ft 1.0010		Fpv (From Tables) 1.024	Gravity .650	Fg = .9608

Initial SIPT (PC) = 1041 psig

Final SIPC (PC) = 1042 psig

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

$$Q = (12.365)(235)(1.0010)(.9608)(1.024)$$

2862

MCF/D

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

$$\text{Aof } \left(\frac{1,004,004}{784,980} \right)^n = (1.2790)^{.75}(2862) = (1.2025)(2862)$$

Aof

3442

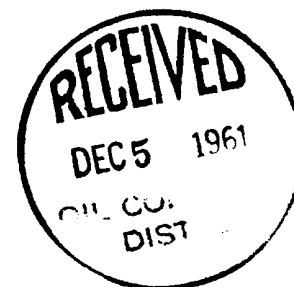
MCF/D

TESTED BY **James B. Goodwin**

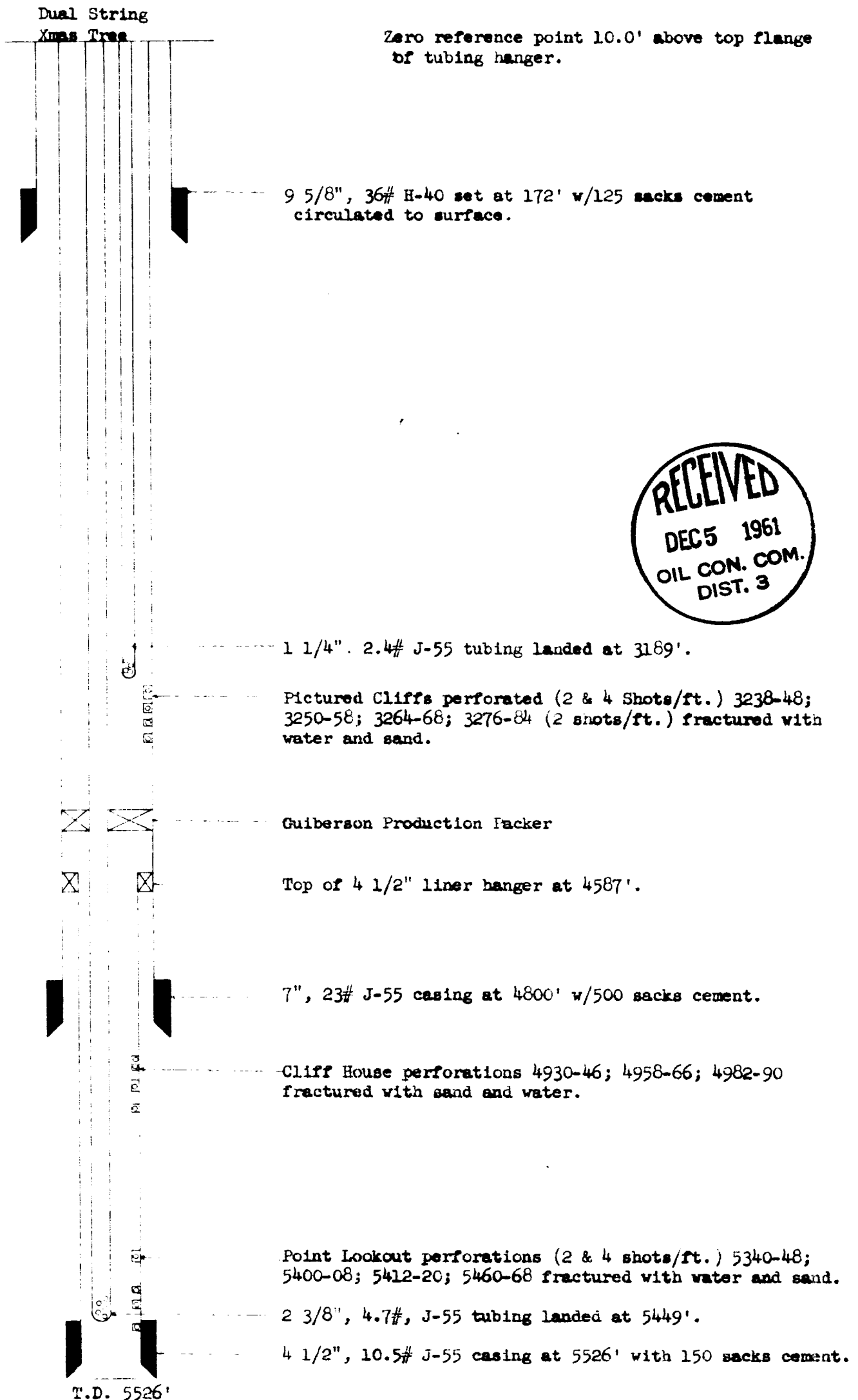
WITNESSED BY

Checked by: W. D. Dawson

Lewis D. Galloway
L. D. Galloway



SCHEMATIC DIAGRAM OF DUALY COMPLETED
 El Paso Natural Gas Co. San Juan 27-5 Unit No. 8 (PM)
 SW/4 Section 32, T-27-N, R-5-W



El Paso Natural Gas Company		San Juan 27-5		Well No. 8 (PM)	
Unit	L Sec. 32 Twp. 27 Rge. 5	Locality	Rio Arriba	Initial	11-15-61
UPPER	Producing Casing or Tubing	Flowing or Artificial Lift	Producing Casing or Tubing	Flowing or Artificial Lift	Producing Casing or Tubing
COMPLETION	Pictured Cliffs	Gas	Flowing	Casing	Flowing or Artificial Lift
LOWER	Producing Casing or Tubing	Flowing or Artificial Lift	Producing Casing or Tubing	Flowing or Artificial Lift	Producing Casing or Tubing
COMPLETION	Mesa Verde	Gas	Flowing	Tubing	Flowing or Artificial Lift

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: September 21, 1961	41 days	1041(C & T)	(XXXXX No)
LOWER	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: September 21, 1961	41 days	990	(XXXXX No)

FLOW TEST NO. 1

Largest Time Since Flow		Working Column Pressure, PSIG	Flowing Zone Pressure, PSIG	Flowing Temperature	Remarks
			Lower	11-1-61	
15 min.	1043		327	56	
30 min.	1043		296	57	
45 min.	1042		276	58	
60 min.	1042		262	58	
180 min.	1042	(Calc.) 456	223	59	

Oil Produced	Oil Rate	Gravity	Gas Oil Ratio
	Bbl. D		
Gas Produced	2862 MCF D (Choke 00000000)		
REMARKS			

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: September 21, 1961	55 days	1050(C & T)	(XXXXX No)
LOWER	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: November 1, 1961	14 days	992	(XXXXX No)

FLOW TEST NO. 2

Largest Time Since Flow		Working Column Pressure, PSIG	Flowing Zone Pressure, PSIG	Flowing Temperature	Remarks
			Upper	11-15-61	
15 min.	549	580	992	55	
30 min.	428	447	992	56	
45 min.	355	372	992	57	
60 min.	302	317	992	57	
120 min.	219	233	992	58	
180 min.	187	199	992	59	



Oil Produced	Oil Rate	Gravity	Gas Oil Ratio
	Bbl. D		
Gas Produced	2414 MCF D (Choke 00000000)		
REMARKS			

The results of this test indicate (No Packer Leakage) (~~000000000000~~) in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19 _____
NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR El Paso Natural Gas Company

BY *H. L. Kendrick*
H. L. Kendrick
Sr. Gas Engineer

TITLE

DATE November 16, 1961