

OIL CONSERVATION COMMISSION
DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE 3-4-63
Re: Proposed NSP _____
Proposed NWU _____
Proposed NSL _____
Proposed NFO _____
Proposed DC _____

Gentlemen:

I have examined the application dated 3-27-63
for the EAVE Co Operator 530 27-5 Lease and Well No. A-35-27N-5W

and my recommendations are as follows:

Ag 21004

Yours very truly,

Henry C. Cline

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Well Name South Blanco P. C. and Blanco Mesa Verde	County Rio Arriba	Date February 26, 1963
Operator El Paso Natural Gas Company	Lease San Juan 27-5 Unit	Well No. 71 (PM)
Section A	Township 28 27N	Range 5-W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in this same pool or in the same zone within one mile of the subject well? YES ☒ NO ☐
2. If answer is yes, identify one such instance: Order No. **DC-760**; Operator, Lease, and Well No.:

El Paso Natural Gas Company San Juan 27-5 Unit #41 (PM)

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) 3172-3288	4870-5492
c. Type of production (oil or gas) Gas	Gas
d. Method of production (flowing or artificial lift) Flowing	Flowing

3. If not flowing, give reason. Please mark YES or NO:

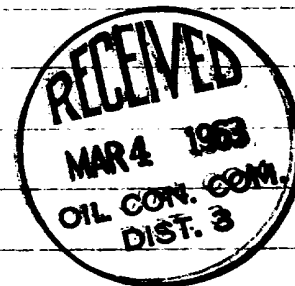
- Yes** a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforation intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- 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 or consents 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 117-A.

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

O

N

E



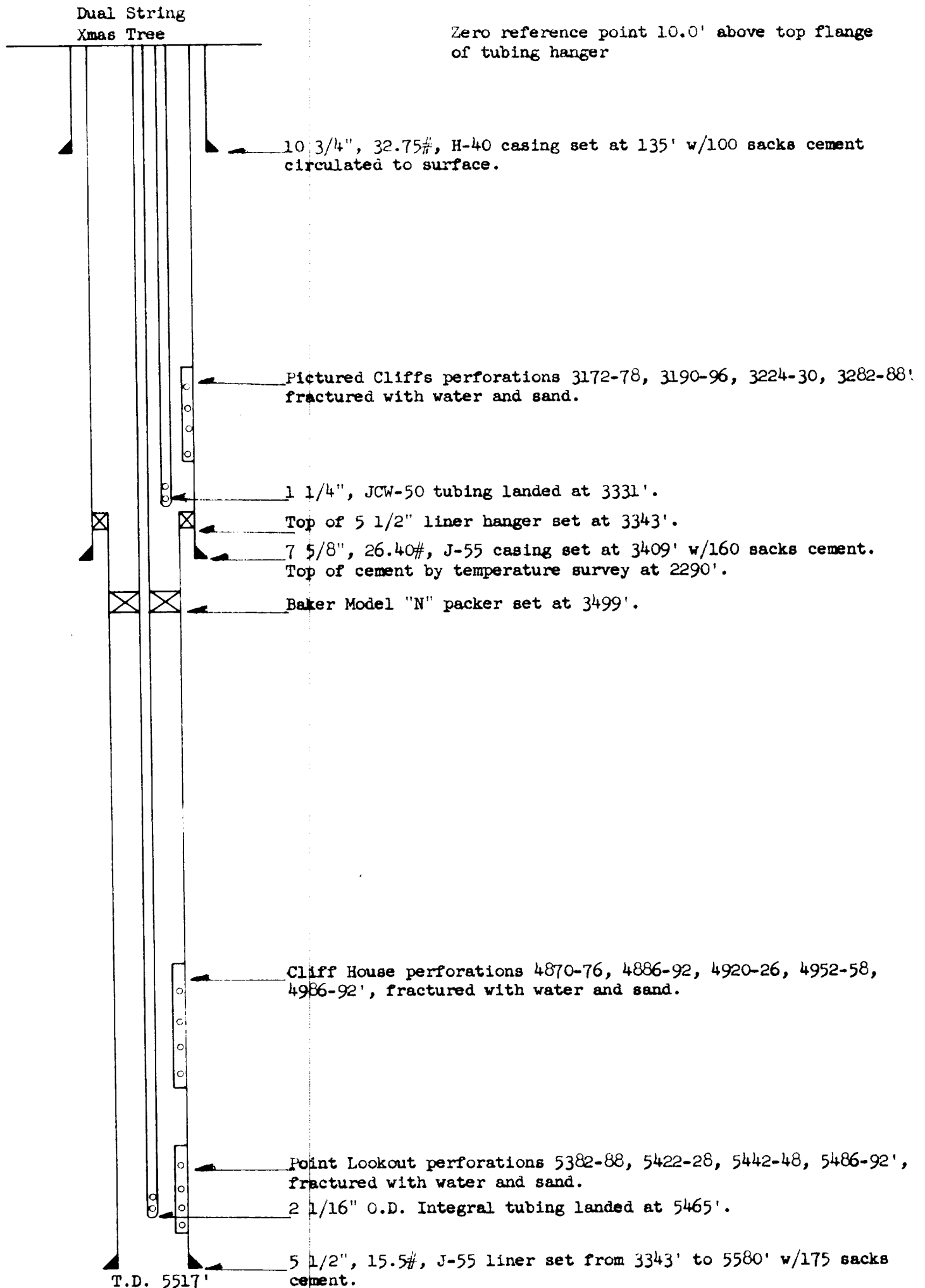
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ☐ NO ☐ If answer is yes, give date of notification.

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

ES Olshy
Signature

- * If all offset operators do 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 in Santa Fe, New Mexico. After this time period, no protest or 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 non-standard perforation interval in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

SCHEMATIC DIAGRAM OF DUALY COMPLETED
 El Paso Natural Gas Co. San Juan 27-5 Unit #71 (PM)
 NE 1/4 Section 28, T-27-N, R-5-W



PLAT SHOWING LOCATION OF DUALY COMPLETED
 El Paso Natural Gas Co. San Juan 27-5 Unit No. 71 (PM)
 and Offset Acreage

El Paso Natural Gas Co.	E.P.N.G.
El Paso Natural Gas Co.	E.P.N.G.
71 (PM)  737' 1130'	
San Juan 27-5 Unit	

EL PASO NATURAL GAS COMPANY
 EL PASO, TEXAS

SCALE

DATE

DRAWN BY

CHECKED BY

No.

Operator	Lease	Well No.
El Paso Natural Gas Company	San Juan Unit 27-5	71(PM)(OWWO)
Location of Well:	County:	Type of Test:
Unit A Sec. 28 Twp 27 Rge 5	Rio Arriba	Initial 12-4-62
UPPER	Oil or Gas	Flowing or Artificial Lift
COMPLETION: Pictured Cliff	Gas	Flowing
LOWER	Oil or Gas	Flowing or Artificial Lift
COMPLETION: Mesa Verde	Gas	Flowing

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: 11-5-62		22 days	974(C) 597(T)	XXXXX No)
LOWER	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: 11-13-62		14 days	1121	XXXXX No)

FLOW TEST NO. 1

Zone Producing (Upper or Lower)		Hour & Date Flow Started			
Upper		11-27-62			
LAPSED TIME	SHUT-IN ZONE	WORKING COLUMN	FLOWING ZONE	FLOWING	REMARKS
SINCE FLOW BEGAN	PRESSURE, PSIG	PRESSURE, PSIG	PRESSURE, PSIG	TEMPERATURE	
15 min.	1120	275	265	51	
30 min.	1121	175	163	53	
45 min.	1121	108	100	54	
1 hour	1121	92	87	54	
2 hours	1121	79	74	55	
3 hours	1122	67	61	55	

OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate:	Gravity	Gas Oil Ratio
			Bbl. / D		
GAS PRODUCED	Rate of Flow	Tested Through			
	879 MCF / D (Choke XXXXXX)				
REMARKS: Blew tubing for 5 minutes, blew down in 2 minutes then unloaded 1 barrel paraffin (approx). Then heavy slug of water, then medium fog for remainder of test.					

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: 11-27-62		7 days	956(C) 864(T)	XXXXX No)
LOWER	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION: 11-13-62		21 days	1123	XXXXX No)

FLOW TEST NO. 2

Zone Producing (Upper or Lower)		Hour & Date Flow Started			
Lower		12-4-62			
LAPSED TIME	FLOWING ZONE	WORKING COLUMN	SHUT-IN ZONE	FLOWING	REMARKS
SINCE FLOW BEGAN	PRESSURE, PSIG	PRESSURE, PSIG	PRESSURE, PSIG	TEMPERATURE	
15 min.	325		959	52	
30 min.	284		959	54	
45 min.	252		959	55	
60 min.	207		959	55	
180 min.	176	873	959	54	

OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate:	Gravity	Gas Oil Ratio
			Bbl. / D		
GAS PRODUCED	Rate of Flow	Tested Through			
	2289 MCF / D (Choke XXXXXX)				
REMARKS					

The results of this test indicate ~~no packer leakage~~ (Packer Leakage) in this well.

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

Approved	19	OPERATOR	EL PASO NATURAL GAS COMPANY
NEW MEXICO OIL CONSERVATION COMMISSION		BY	<i>H. L. Kendrick</i>
BY:		TITLE	Sr. Gas Engineer
TITLE:		DATE	December 5, 1962

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE - November 27, 1962

Company El Paso Natural Gas Company	Well San Juan Unit 27-5 No. 71(PC) (OWO)
Location 1190'N, 797'E, Sec. 28-27-5	State New Mexico
Property Pictured Cliff	Field Rio Arriba
Depth 7.625	Depth South Blanco
Pressure 3172	Pressure 5580 c/o 5517
Temperature 3409	Temperature 3321
Flow 3288	Flow 11-5-62
Fluid Sand/Water Frac.	Fluid X

Depth .75	Pressure 12.365	Depth 5-1/2" liner at 3343' - 5580'
Pressure (PC) 974	Pressure 986	Pressure (PC) 597
Depth 61	Pressure 73	Pressure 67
Pressure 55	Pressure 1.0048 .85	Pressure 1.009
		Pressure .650 .9608

Initial SIPT (MV) = 1121 psig

Final SIPT (MV) = 1122 psig

(12.365)(73)(1.0048)(.9608)(1.009)

879

MCF/D

972,196
965,955

(1.0064)^{.85}(879) = (1.0054)(879)

NOTE: Opened tubing for five minutes and unloaded heavy slug of water. Well blew medium fog of water for remainder of test.

884

MCF/D

Tom B. Grant

Checked by H. L. Kendrick

Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

CORRECTED COPY

DATE December 4, 1962

Operator El Paso Natural Gas Company		Lease San Juan Unit 27-5 No. 71(MV) (OMNO)	
Location 1190'N, 797'E, Sec. 28-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.625	Set At: Feet 3409	Tubing: Diameter 2.0625	Set At: Feet 5454
Pay Zone: From 4870	To 5492	Total Depth: 5580 C/O 5517	Shut In 11-13-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365		5.500" Liner at 3343' - 5580'. Baker Model "N" Packer at 3499'.	
Shut-In Pressure, Casing, (PC) 956	PSIG	12	PSIA	Days Shut-In 21	Shut-In Pressure, Tubing (MV) 1123
Flowing Pressure: P 176	PSIG	12	PSIA	Working Pressure: Pw Calculated	PSIG
Temperature: 54	F	1.0068	.75	Fpv (From Tables) 1.018	Gravity .650
				Fg = .9608	

Initial SIPT (PC) = 864 psig

Final SIPT (PC) = 959 psig

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

$$Q = (12.365)(188)(1.0068)(.9608)(1.018)$$

2289

MCF/D

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

$$A_{of} = \left(\frac{1,288,225}{1,045,176} \right)^n = (2289)(1.2325)^{.75} = (2289)(1.1700)$$

A_{of} 2678

MCF/D

CORRECTED COPY

CHECKED BY Don Mortensen

WITNESSED BY

Calculated by H. L. Kendrick

Lewis D. Galloway
Lewis D. Galloway

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 September 9, 1962, I was called to the location of the El Paso Natural Gas Company San Juan 27-5 Unit #71 (PM) Well located in the NE/4 of Section 28, Township 27 North, Range 5 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 3499 feet in accordance with the usual practices and customs of the industry.

FH Wood

Subscribed and sworn to before me this 26th day of February, 1963

Dora G. Briscoe
Notary Public in and for San Juan County,
New Mexico

My commission expires October 5, 1964.