

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 2-26-63
for the EPNG CO Blanco Gas Unit #4 K-30-28N-8W
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Agreed

Yours very truly,

Emory Clewell

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

County		Date
South Blanco Pictured Cliffs & Blanco M. V.		February 26, 1963
Operator	Lease	Well No.
El Paso Natural Gas Company	Blanco Gas Unit	4 (PM)
Section	Township	Range
K	28-N	8-W

1. I, the undersigned, being duly qualified in accordance with the provisions of the New Mexico Oil Conservation Act, hereby certify that the above information is true and correct to the best of my knowledge and belief.

2. I hereby certify that the above information is true and correct to the best of my knowledge and belief.

Zone	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Mesa Verde
b. Top and Bottom of section	2643-2665	4290-4970
c. Kind of production (oil or gas)	Gas	Gas
d. Method of production	Flowing	Flowing

3. I hereby certify that the above information is true and correct to the best of my knowledge and belief.
4. I hereby certify that the above information is true and correct to the best of my knowledge and belief.
5. I hereby certify that the above information is true and correct to the best of my knowledge and belief.

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

N

O

N

E



6. I hereby certify that the above information is true and correct to the best of my knowledge and belief.

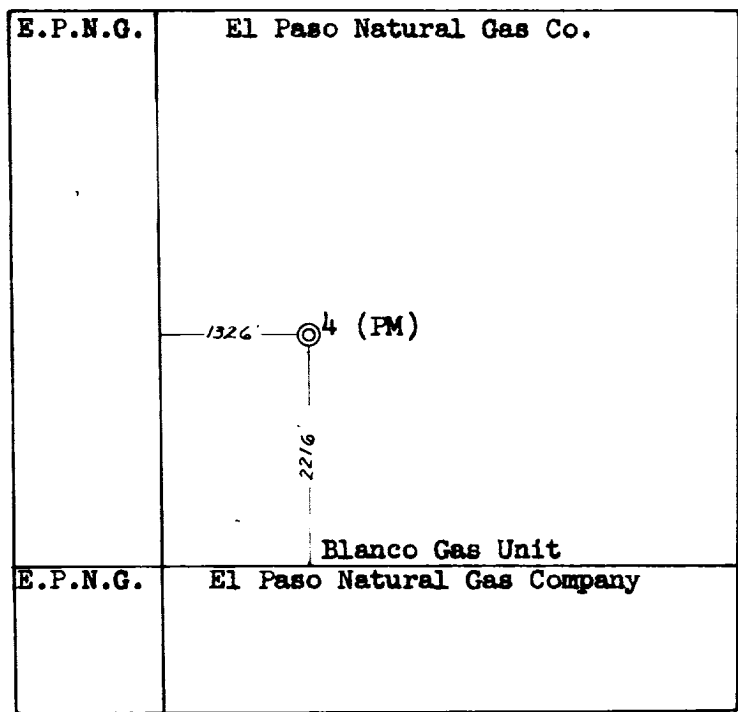
7. I hereby certify that the above information is true and correct to the best of my knowledge and belief.

8. I hereby certify that the above information is true and correct to the best of my knowledge and belief.

9. I hereby certify that the above information is true and correct to the best of my knowledge and belief.

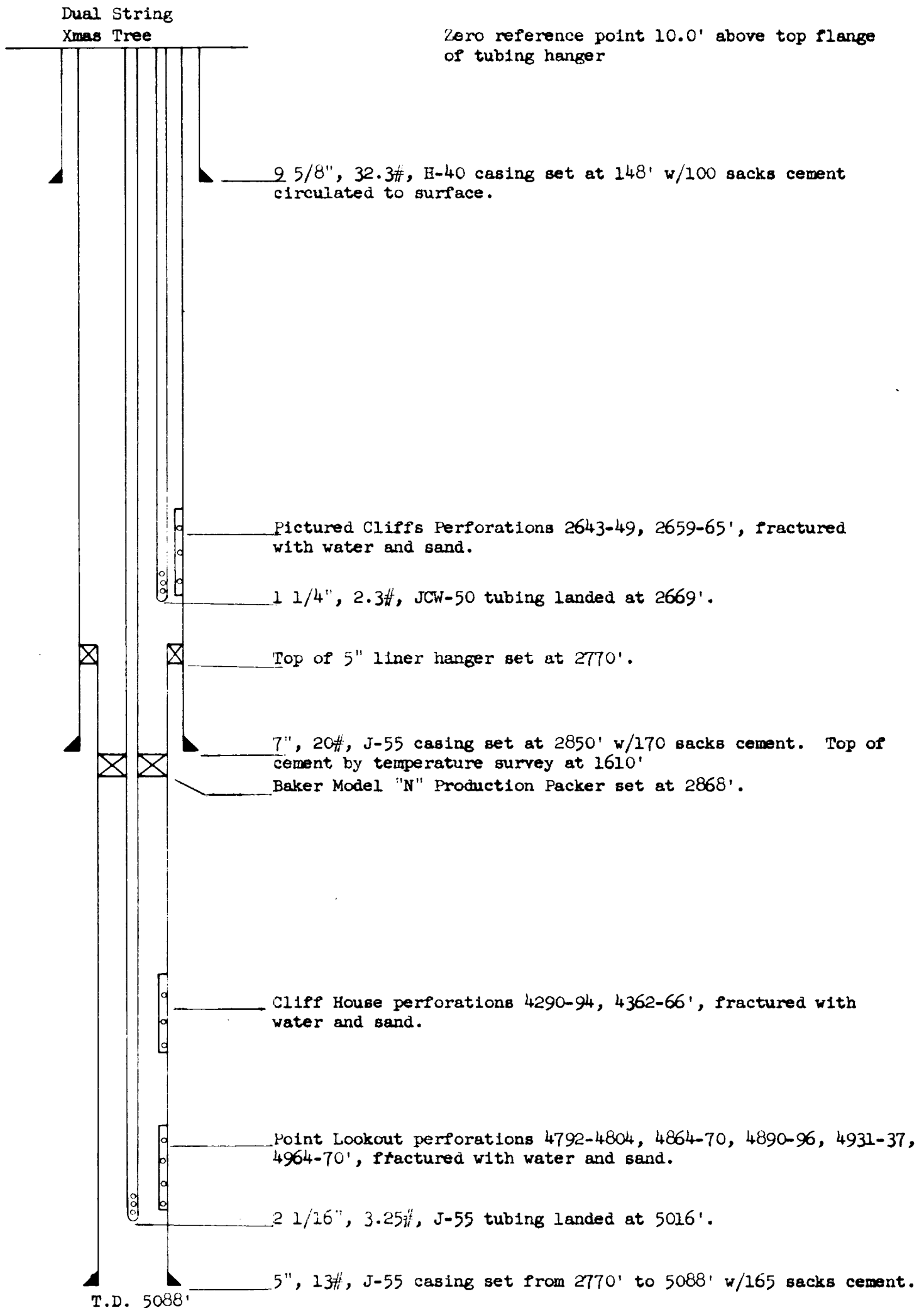
10. I hereby certify that the above information is true and correct to the best of my knowledge and belief.

PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Blanco Gas Unit No. 4 (PM)
and Offset Acreage



EL PASO NATURAL GAS COMPANY EL PASO, TEXAS		
SCALE	DATE	No.
DRAWN BY	CHECKED BY	

SCHEMATIC DIAGRAM OF DUALY COMPLETED
El Paso Natural Gas Co. Blanco Gas Unit No. 4 (PM)
SW/4 Section 36, T-28-N, R-8-W



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 26, 1962

Operator El Paso Natural Gas Company		Lease Blanco Gas Unit No. 4 (PC)	
Location 2216'S, 1326'W, Sec. 36-28-8		County San Juan	State New Mexico
Formation Pictured Cliff		Pool South Blanco	
Casing: Diameter 7"	Set At: Feet 2875	Tubing: Diameter 1.660	Set At: Feet 2659
Flow Zone: From 2643	To 2665	Total Depth: 2879	Shut In 8-18-62
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Coke Size, Inches 0.75		Choke Constant: C 12.365		Baker Model "N" Packer at 2868'.	
Shut-In Pressure, Casing, PSIG 1028 (PC)	PSIA 1040	Days Shut-In 39	Shut-In Pressure, Tubing, PSIG 1028 (PC)	PSIA 1040	
Flowing Pressure, P, PSIG 134	PSIA 146		Working Pressure: P _w , PSIG 136	PSIA 148	
Temperature, °F 62	n .9981		F _{pv} (From Tables) 1.013	Gravity .650	F _g .9608

Initial SIPT (MV) = 1022 psig

Final SIPT (MV) = 1028 psig

CHOKED VOLUME Q C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(146)(.9981)(.9608)(1.013) = 1754 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,081,600}{1,059,696} \right)^n (1.0206)^{.85} (1754) = (1.0175)(1754)$$

$$Aof = 1785 \text{ MCF/D}$$

By D. E. Mortensen

Calculated by T. B. Grant
Checked by W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE September 19, 1962

Operator El Paso Natural Gas Company		Lease Blanco Gas Unit No. 4 (MV)	
Location 2216'S, 1326'W, Sec. 36-28-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 5"	Set At: Feet 5088	Tubing: Diameter 2.0625	Set At: Feet 5006
Pay Zone: From 4290	To 4970	Total Depth: 5091	Shut In 8-30-62
Stimulation Method Sand/Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365		Baker Model "N" Packer at 2868'.	
Shut-In Pressure, Casing, (PC) 1024	PSIG + 12 = PSIA 1036	Days Shut-In 20	Shut-In Pressure, Tubing (MV) 1033	PSIG + 12 = PSIA 1045	
Flowing Pressure: P 172	PSIG + 12 = PSIA 184		Working Pressure: P _w (Calc.)	PSIG + 12 = PSIA 464	
Temperature: T 60 F	F _r 1.000		F _{pv} (From Tables) 1.017	Gravity F _g .9608	

Initial SIPT (PC) = 1023 psig

Final SIPT (PC) = 1026 psig

CHOKE VOLUME Q C x P_r x F_r x F_g x F_{pv}

$$Q = (12.365)(184)(1.000)(.9608)(1.017)$$

2223

MCF/D

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

Aof $\left(\frac{1,092,025}{876,729} \right)^n = (2223)(1.2455)^{.75} = (2223)(1.1788)$

NOTE: Blew slight Mist.

Aof 2620 MCF/D

TESTED BY D. E. Mortensen

WITNESSED BY

Calculated by W. D. Dawson

Checked by T. B. Grant

Lewis D. Galloway
Lewis D. Galloway

Operator	El Paso Natural Gas Company	Lease	Blanco Gas Unit	Well No.	4 (PM)
Location of Well:	County:	Type of Test:	Initial	9-26-62	Annual
Unit	K Sec. 36 Twp 28 Rge 8	San Juan	Flowing or Artificial Lift	Producing Casing or Tubing	YEAR
UPPER	Name of Reservoir or Pool	Oil or Gas	Flowing or Artificial Lift	Producing Casing or Tubing	YEAR
COMPLETION:	Pictured Cliff	Gas	Flowing	Casing	
LOWER	Name of Reservoir or Pool	Oil or Gas	Flowing or Artificial Lift	Producing Casing or Tubing	YEAR
COMPLETION:	Mesa Verde	Gas	Flowing	Tubing	

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:	8-18-62	32 days	1024(C) 1023(T)	XXXX No)
LOWER	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION:	3-30-62	20 days	1033	XXXX No)

FLOW TEST NO. 1

LAPSED TIME SINCE FLOW BEGAN	SHUT-IN ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
	Csg. Tbg.		Lower	9-19-62	
15 min.	1026	1025	286	56	
30 min.	1026		254	57	
45 min.	1026		222	57	
60 min.	1026		201	58	
180 min.	1026	1025 Calc. 452	172	60	

OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate:	Gravity	Gas Oil Ratio
			Bbl. D		
GAS PRODUCED	Rate of Flow	Tested Through			
	2223 MCF D (Choke XXXXXX)				

REMARKS:
Blew slight mist.

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:	8-18-62	39 days	1028(C & T)	XXXX No)
LOWER	Hour & Date Well Shut-in	Length of Time Shut-in	Shut-in Pressure, PSIG	Stabilized Pressure
COMPLETION:	9-19-62	7 days	1022	XXXX No)

FLOW TEST NO. 2

LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
			Upper	9-26-62	
15 min.	353		1023	55	
30 min.	263		1025	59	
45 min.	212		1026	59	
60 min.	193		1027	60	
180 min.	134	136	1028	62	

OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate:	Gravity	Gas Oil Ratio
			Bbl. D		
GAS PRODUCED	Rate of Flow	Tested Through			
	1754 MCF D (Choke XXXXXX)				

REMARKS:

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

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

Approved: _____
NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR EL PASO NATURAL GAS COMPANY
BY *H. L. Kendrick*
H. L. Kendrick
TITLE Sr. Gas Engineer

BY: _____
TITLE: _____
DATE: September 28, 1962