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

DATE 3-1-60

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

RE: Proposed NSP _____
Proposed NSL _____
Proposed NFO _____
Proposed DC V

Gentlemen:

I have examined the application dated 2-10-60

for the EPNG Klein 7 E 33-26-6
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

Emery C Arnold
OIL CONSERVATION COMMISSION

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name	County	Date
South Blanco P. C. & Wildcat Chacra	Rio Arriba	February 10, 1960

Operator	Lease	Well No.
El Paso Natural Gas Company	Klein	7 (PC)

Location of Well	Unit	Section	Township	Range
	E	33	26N	6W

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 X NO ____
2. If answer is yes, identify one such instance: Order No. DC-629 ; Operator, Lease, and Well No.:

El Paso Natural Gas Co. Johnston State No. 3 (PC)

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Pictured Cliffs	Chacra
b. Top and Bottom of Pay Section (Perforations)	2942 - 2956	3788- 3892
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

RECEIVED
FEB 29 1960
OIL CON. COM.
DIST. 3

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO ____. If answer is yes, give date of such notification 2-10-60 .

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, A. T. Fry, being first duly sworn upon my oath depose and say as follows:

I am an employee of Guiberson Corporation, and that on December 20, 1959, I was called to the location of the El Paso Natural Gas Company Klein No. 7 (PC) Well located in the SWNW/4 of Section 33, Township 26 North, Range 6 West, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Guiberson Model "AG" Production Packer was set in this well at 3100 feet in accordance with the usual practices and customs of the industry.

A. T. Fry

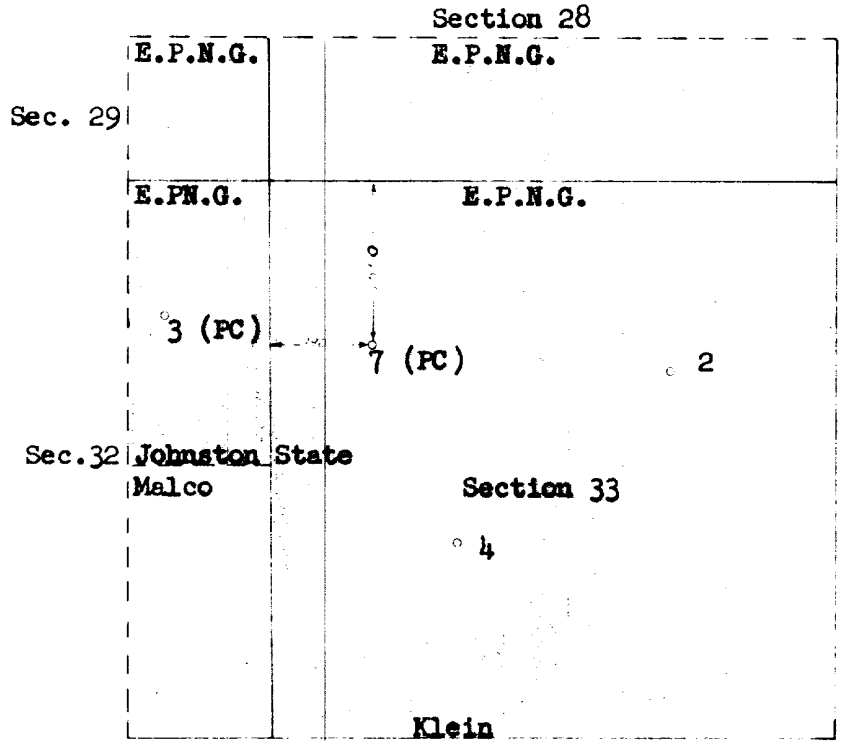
Subscribed and sworn to before me this 11th day of February 1960.

Notary Public in and for San Juan County, New Mexico

My commission expires February 24, 1960.

PLAT SHOWING LOCATION OF DUALLY COMPLETED
El Paso Natural Gas Co. Klein No. 7 (PC)
and Offset Acreage

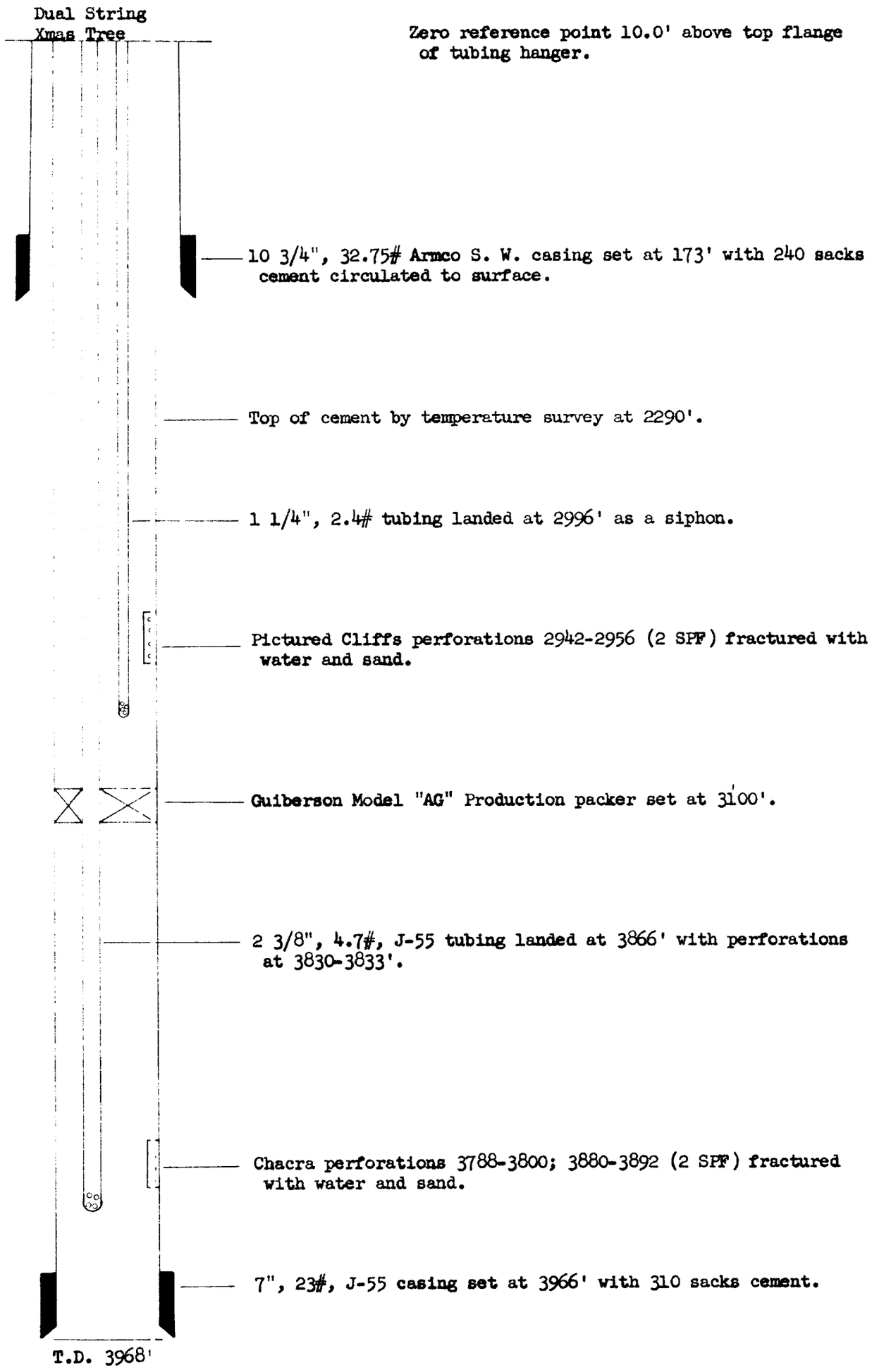
T-26-N
R-6-W



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

FORM 7-132R (10-56)

SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Klein No. 7 (PC)
NW/4 Section 33, T-26-N, R-6-W



EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE **January 20, 1960**

Operator: **El Paso Natural Gas**		Lease: **Klein No. 7 (PC)**	
Location: **1550N, 990W; 33-26-6**		County: **Rio Arriba**	State: **New Mexico**
Formation: **Pictured Cliffs**		Pool: **South Blanco**	
Casing: Diameter: **7**	Set At: Feet: **3966**	Tubing: Diameter: **1-1/4**	Set At: Feet: **2986**
Pay Zone: From: **2942**	To: **2956**	Total Depth: **3968 c/o 3922**	Shut In: **12/20/59**
Stimulation Method: **Sand Water Frac.**		Flow Through Casing: **X**	Flow Through Tubing:

Choke Size, Inches: **.75**	Choke Constant: C: **12.365**			**7" at 3966**			
Shut-in Pressure, Casing: **816**	PSIG + 12 = PSIA: **828**	Days Shut-In: **31**		Shut-in Pressure, Tubing: **816**	PSIG + 12 = PSIA: **828**		
Flowing Pressure: P: **116**	PSIG + 12 = PSIA: **128**			Working Pressure: P_w: **124**	PSIG + 12 = PSIA: **136**		
Temperature: T **56**	F: **1.0039**	n: **.85**		Fpv (From Tables): **1.011**	Gravity: **.650**	Fg: **.9608**	

Initial SIPT (MV) = 907
Final SIPT (MV) = 907

Packer at 3100

CHOKE VOLUME: $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

$Q = 12.365 \times 128 \times 1.0039 \times .9608 \times 1.011 = 1543$ MCF D

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

Aof $\left(\frac{685584}{667088} \right)^n$ $1.0277^{.85} \times 1543 = 1.0235 \times 1543$

Aof **1579** MCF/D

TESTED BY: **Frank Clark**

WITNESSED BY:

Checked By W. D. Dawson

Louis D. Galloway

L. D. Galloway

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE January 5, 1960

Operator: El Paso Natural Gas		Lease: Klein No. 7 (Ch)	
Location: 1550N 990W; 33-26-6		County: Rio Arriba	State: New Mexico
Formation: Chacra		Pool: Undesignated	
Casing: Diameter: 7	Set At: Feet: 3966	Tubing: Diameter: 2	Set At: Feet: 3856
Pay Zone: From: 3788	To: 3892	Total Depth: 3968 c/o 3922	Shut In: 12/20/59
Stimulation Method: Sand Water Frac.		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: .75	Choke Constant: C: 12.365		7" at 3966		
Shut-in Pressure, Casing: 791 (P)	PSIG + 12 = PSIA: 803	Days Shut-In: 16	Shut-in Pressure, Tubing: 889 (CH)	PSIG + 12 = PSIA: 901	
Flowing Pressure: P: 115	PSIG + 12 = PSIA: 127		Working Pressure: Pw: Calc.	PSIG + 12 = PSIA: 224	
Temperature: T 57 °F	Ft: 1.0029	n: .75	Fpv (From Tables): 1.011	Gravity: .650	Fg: .9608

Initial SIPT (PC) = 791 psig
Final SIPC (PC) = 792 psig

Guib. "AG" Packer at 3100

CHOKE VOLUME $Q = C \times P_t \times F_t \times F_g \times F_{pv}$

$Q = 12.365 \times 127 \times 1.0029 \times .9608 \times 1.011 = 1530$ MCF D

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

$Aof = \left(\frac{811801}{761625} \right)^n$ $1.0658^{.75} \times 1530 = 1.0490 \times 1530$

Aof 1605 MCF D

TESTED BY F. M. Clark

WITNESSED BY

Checked By T. B. Grant

Lewis D. Galloway
L. D. Galloway