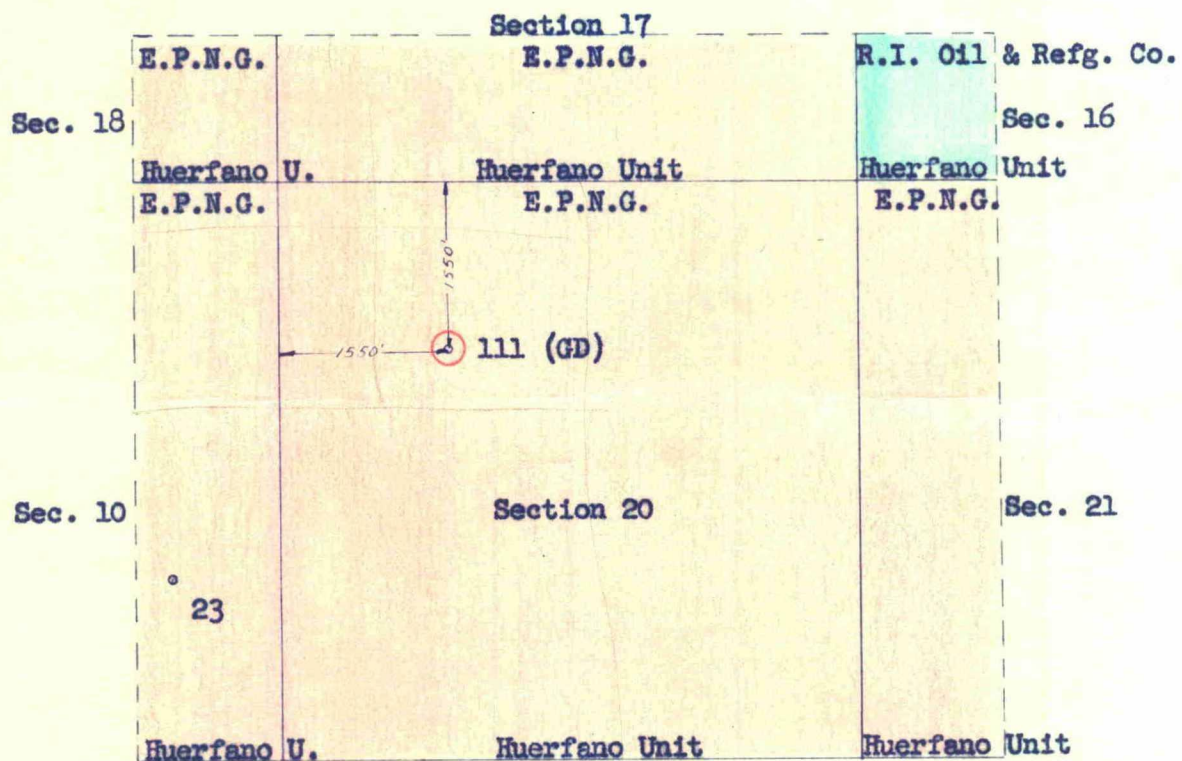


PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Huerfano Unit No. 111 (GD)
and Offset Acreage

T-26-N
R-9-W



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EPNG EXHIBIT NO. 1
CASE NO. 1838

EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE

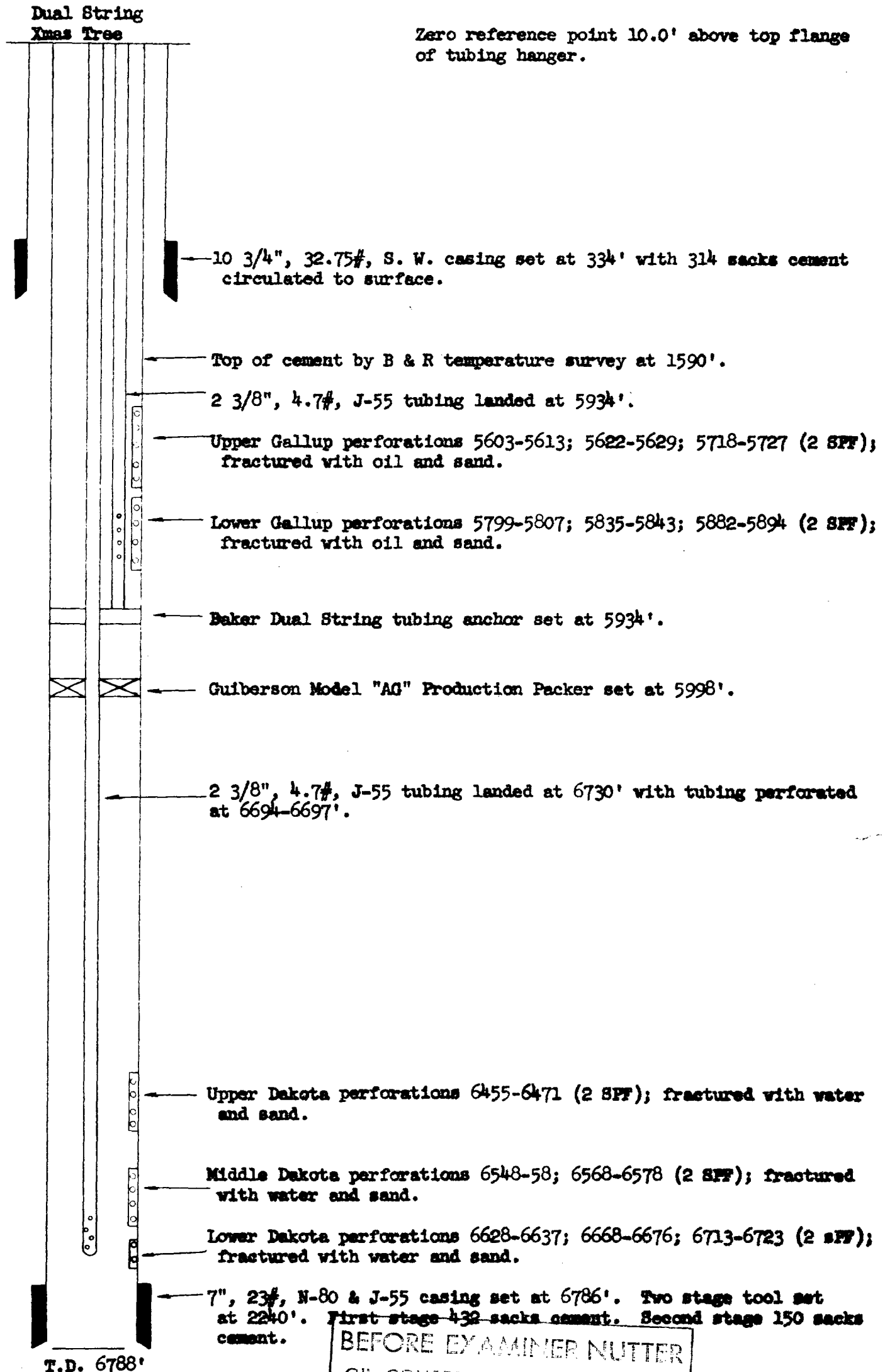
DATE

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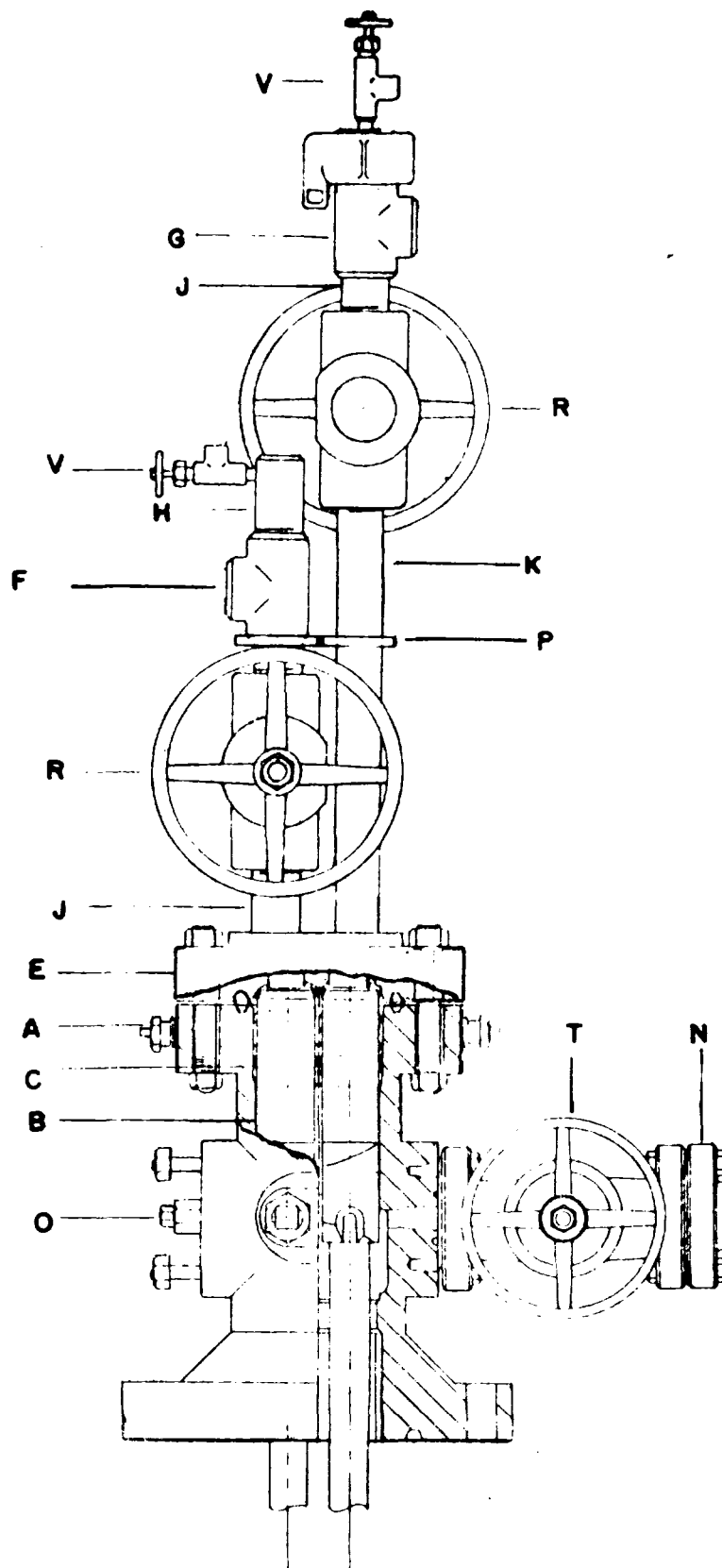
DRAWN BY

CHECKED BY

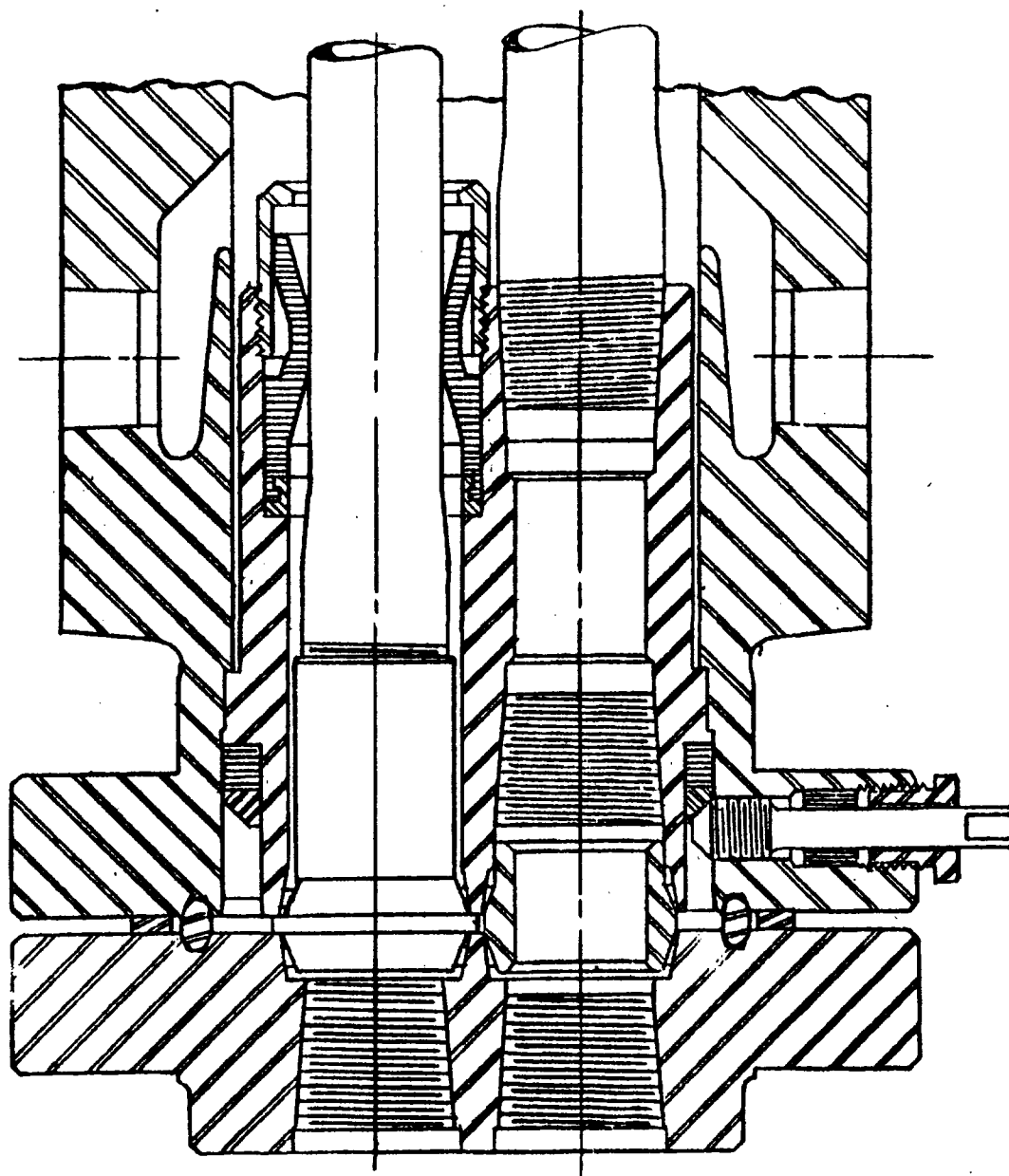
SCHEMATIC DIAGRAM OF DUAL COMPLETION
El Paso Natural Gas Co. Huerfano Unit No. 111 (GD)
NW/4 Section 20, T-26-N, R-9-W



BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
 EPNG EXHIBIT NO. 2
 CASE NO. 1832



CHRISTMAS TREE ASSEMBLY NO. X-1148-U REV.13			PROPERTY OF OIL CENTER TOOL CO., INC. HOUSTON, TEXAS		
PART NO.	SCALE	PATTERN NO.	DATE 2-24-55	SIZE	FILE NO.
MATERIAL SPEC.			DES. BY S.C.		DWS. NO.
FOR EL PASO NATURAL GAS CO			CHE. BY		
			APPROV.		



EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 2, 1959

Operator El Paso Natural Gas Company		Lease Huerfano No. 111 (G)	
Location 1550N, 1550W; 20-26-9		County San Juan	State New Mexico
Formation Gallup		Pool Undesignated	
Casing: Diameter 7	Set At: Feet 6776	Tubing: Diameter 2	Set At: Feet 5921
Pay Zone: From 5603	To 5894	Total Depth: 6788 c/o 6770	Shut In: 10/7/59
Stimulant & Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant, C 12.365		
Shut-In Pressure, Casing, PSIG 1169 (G)	PSIG 1181	Days Shut-In 26	Shut-In Pressure, Tubing, PSIG 897 (G)
Flowing Pressure: P, PSIG 163	PSIG 175		Working Pressure: P _w , PSIG 465
Temperature: T, °F 63	°F .75		Fpv (From Tables) 1.026
			Gravity .798

Initial SIPT (Dek) = 1440 psig

Packer at 5998

Final SIPT (Dek) = 1463 psig

CHOKE VOLUME: $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$
 $Q = 12.365 \times 175 \times .9971 \times .8687 \times 1.026 = 1923 \text{ MCF/D}$

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

Note: Unloaded heavy stream of oil for 15 minutes then heavy fog for remainder of test.

$$Aof = \left(\frac{1394761}{1167232} \right)^n \quad 1.1949^{.75} \times 1923 = 1.1428 \times 1923$$

 $Aof = 2198 \text{ MCF/D}$
TESTED BY T. B. Grant & J. B. Goodwin

WITNESSED BY _____

Lewis D. Galloway
L. D. Galloway