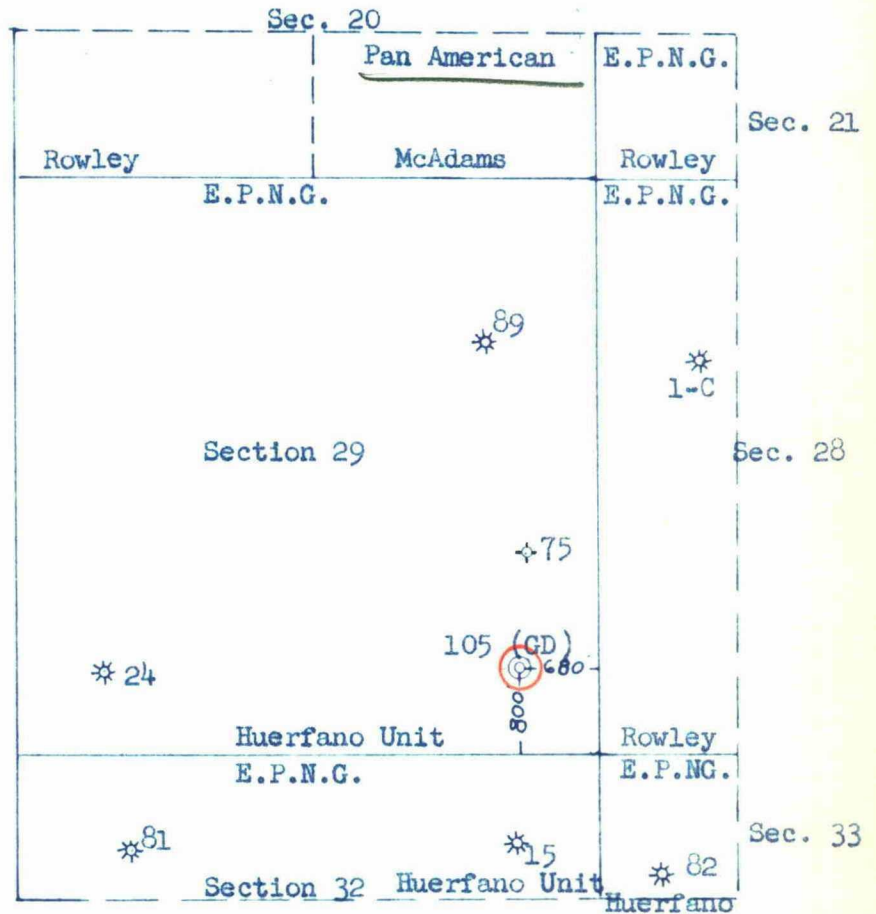


PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Huerfano Unit No. 105 (GD)
and Offset Acreage

T-27-N
R-10-W



Legend

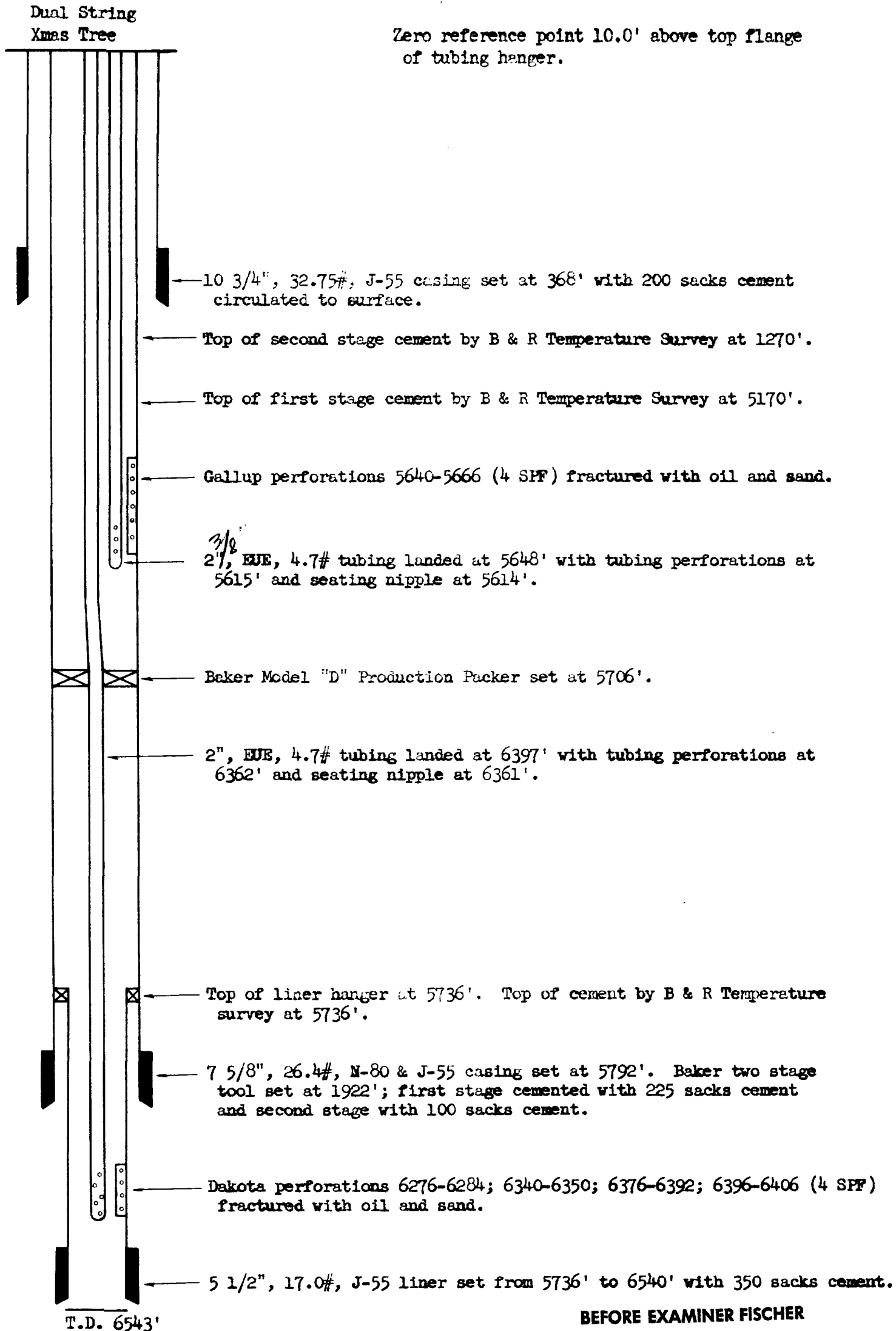
- ⊙ - Gallup (Oil) Dakota (Gas)
- * - Pictured Cliffs

BEFORE EXAMINER FISCHER
OIL CONSERVATION COMMISSION
4/8/59 Exhibit No. 1625
Case No.

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. Huerfano Unit No. 105 (GD)
SE/4 Section 29, T-27-N, R-10-W



BEFORE EXAMINER FISCHER

OIL CONSERVATION COMMISSION

Exhibit No. 2

Case No. 11625

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS



Induction-Electrical Log

COUNTY <u>SAN JUAN, N.M.</u> FIELD or LOCATION <u>WILDCAT</u> WELL <u>HUERFANO # 105</u> COMPANY <u>EL PASO NATURAL GAS COMPANY</u>	COMPANY	EL PASO NATURAL GAS COMPANY	Other Surveys ML
	WELL	HUERFANO # 105	Location of Well 800' FR S/L 680' FR E/L SEC. 29-27N-10W
	FIELD	WILDCAT	Elevation: D.F.: 6072 K.B.: or G.L.: 6063
	LOCATION	SEC. 29-27N-10W	FILING No.
	COUNTY	SAN JUAN	
STATE	NEW MEXICO		

RUN No.	ONE				
Date	11-23-58				
First Reading	6539				
Last Reading	369				
Feet Measured	6170				
Csg. Schlum.	369				
Csg. Driller	369				
Depth Reached	6545				
Bottom Driller	6548				
Depth Datum	KE				
Mud Nat.	GEL				
Dens. Visc.	9.5 @ 20				
Mud Resist.	2.4 @ 72°F	@ 72°F	@ 72°F	@ 72°F	@ 72°F
" Res. BHT	1.3 @ 133°F	@ 133°F	@ 133°F	@ 133°F	@ 133°F
" Rmf	1.3 @ 133°F	@ 133°F	@ 133°F	@ 133°F	@ 133°F
" Rmc	1.4 @ 135°F	@ 135°F	@ 135°F	@ 135°F	@ 135°F
" pH	-- @	@	@	@	@
" Wtr. Loss	-- CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	9 7/8" TO 4760;	8 3/4" TO 10			
Spcgs.—AM	16"				
IND.	40"				
Opr. Rig Time	2 1/2 HRS.				
Truck No.	2516 FARM.				
Recorded By	HAMILTON				
Witness	ULLICH				

EPNG 50
BEFORE EXAMINER FISCHER
 OIL CONSERVATION COMMISSION
 4/8/59 Exhibit No. 3
 Case No. 1625

FOLD HERE

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE COMPLETION

DATE December 30, 1958

Operator El Paso Natural Gas		Lease Huerfano Unit 105 (D)	
Location 8008, 680E; 29-27-10		County San Juan	State New Mexico
Formation Dakota		Pool Undesignated	
Casing: Diameter 1-5/8	Set At: Feet 5792	Tubing: Diameter 2"	Set At: Feet 6387
Pay Zone: From 6276	To 6406	Total Depth 6548 c/o 6497	Shut in 12/13/58 X
Stimulation Method Sand Oil Frac.		Flow Through Casing X	

Choke Size, Inches .75		Choke Constant: C 12/365	
Shut-In Pressure, Casing, PSIG (G) 1334	PSIG - 12 - PSIA 1346	Days Shut-in 10	5-1/2 liner 5736 - 6540
Flowing Pressure: P 342	PSIG - 12 - PSIA 354	Shut-In Pressure: Tubing, PSIG (D) 1924	PSIG - 12 - PSIA 1936
Temperature: T 77	F .75	Working Pressure: P _w Calc.	PSIG - 12 - PSIA 737
		F _{pv} (From Tables) 1.029	Gravity .630

Initial SIPT (G) = 1318 PSIG

Packer at 5706

Final SIPC (G) = 1334 PSIG

CHOKE VOLUME - $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$$Q = 12.365 \times 1346 \times .9840 \times .9759 \times 1.029 = 4325 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3748096}{3204927} \right)^n \quad 1.1694^{.75} \times 4325 = 1.1246 \times 4325$$

Aof 4864 MCF/DTESTED BY Frank Clark

WITNESSED BY

Checked by: R. Davis

Lewis D. Galloway
L. D. Galloway

OPEN FLOW TEST DATA

DUAL COMPLETION

DATE **January 27, 1959**

Operator El Paso Natural Gas Company		Lease Huerfano Unit 105 (G)	
Location 800S, 680E; 29-27-10		County San Juan	State New Mexico
Formation Gallup		Pool Undesignated	
Casing Diameter 7-5/8	Set At Feet 5792	Tubing Diameter 2"	Set At Feet 5638
Perforations From 5614	To 5666	Total Depth 6548 c/o 6497	Shut in 12/13/58
Stimulation Method Sand Oil Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75	Choke Constant, C 12.365	5-1/2 liner 5736 - 6540	
Shut-In Pressure, casing, PSIG (G) 1336	- 12 = PSIA 1348	Days Since 45	Shut-In Pressure, Tubing, PSIG (G) 1326
Flowing Pressure, casing, PSIG 150	- 12 = PSIA 162		Working Pressure, tubing, PSIG 552
Temperature, casing, F 74	Viscosity, cp .75	Flow From Tubing 1.019	Gravity .720

Initial (B) SIPT = 1972 psig

Final (D) SIPT = 1988 psig

Packer at 5706

CHOKE VOLUME = $Q \times C \times P_c \times F_p \times F_g \times F_v$

$$Q = 12.365 \times 162 \times .9868 \times .9129 \times 1.019$$

1839

MCF/D

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

Well was flowed through high pressure separator with .75" choke downstream of separator. Liquid production was then measured in a stock tank. Well produced 71.4 bbls of oil during the three hour test. This would indicate a production rate of 571.2 bbls/day, or a G.O.R. of 3,283.

$$A_{of} = \left(\frac{1817104}{1499008} \right)^n$$

$$1.2122^{.75} \times 1839 = 1.1558 \times 1839$$

$$A_{of} = 2126$$

MCF/D

TESTED BY **James Goodwin and D. Mortensen**

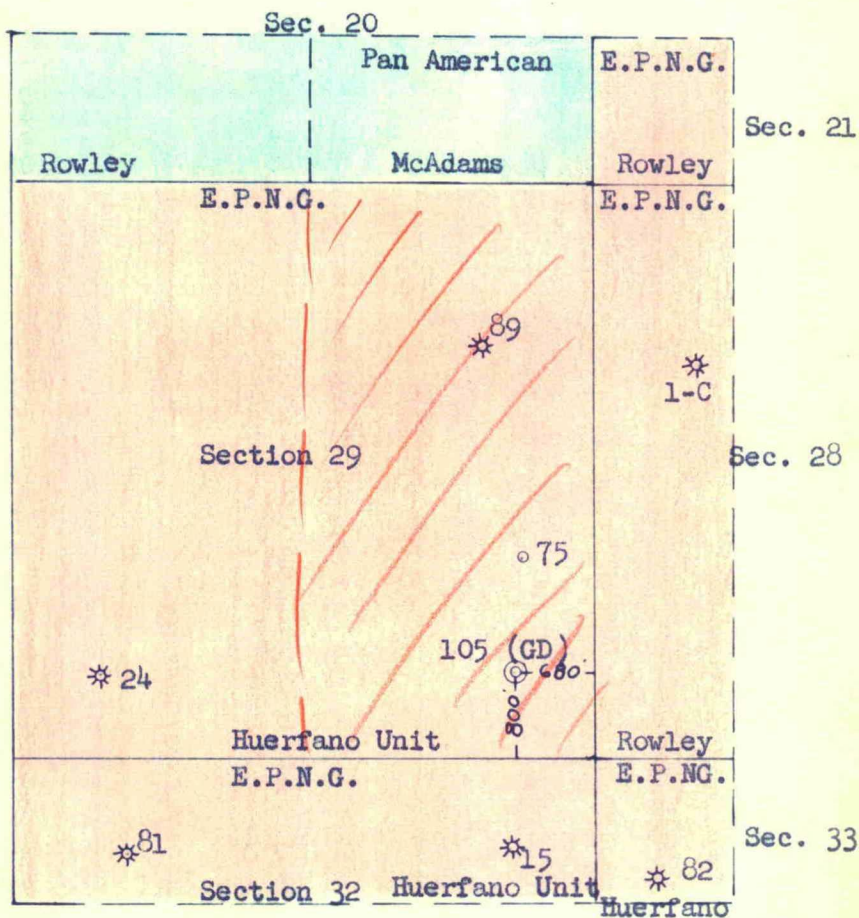
WITNESSED BY _____

Checked By **M. W. Rischard**

L. D. Galloway

PLAT SHOWING LOCATION OF DUALY COMPLETED
El Paso Natural Gas Co. Huerfano Unit No. 105 (GD)
and Offset Acreage

T-27-N
R-10-W



Legend

- ⊙ - Gallup (Oil) Dakota (Gas)
- * - Pictured Cliffs

EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

SCALE	DATE	No.
DRAWN BY	CHECKED BY	