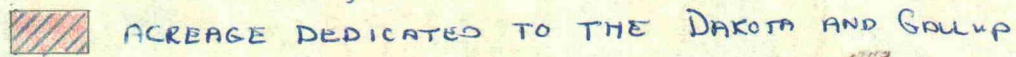


T-26-N
R-10-W



CASE NO. 2201

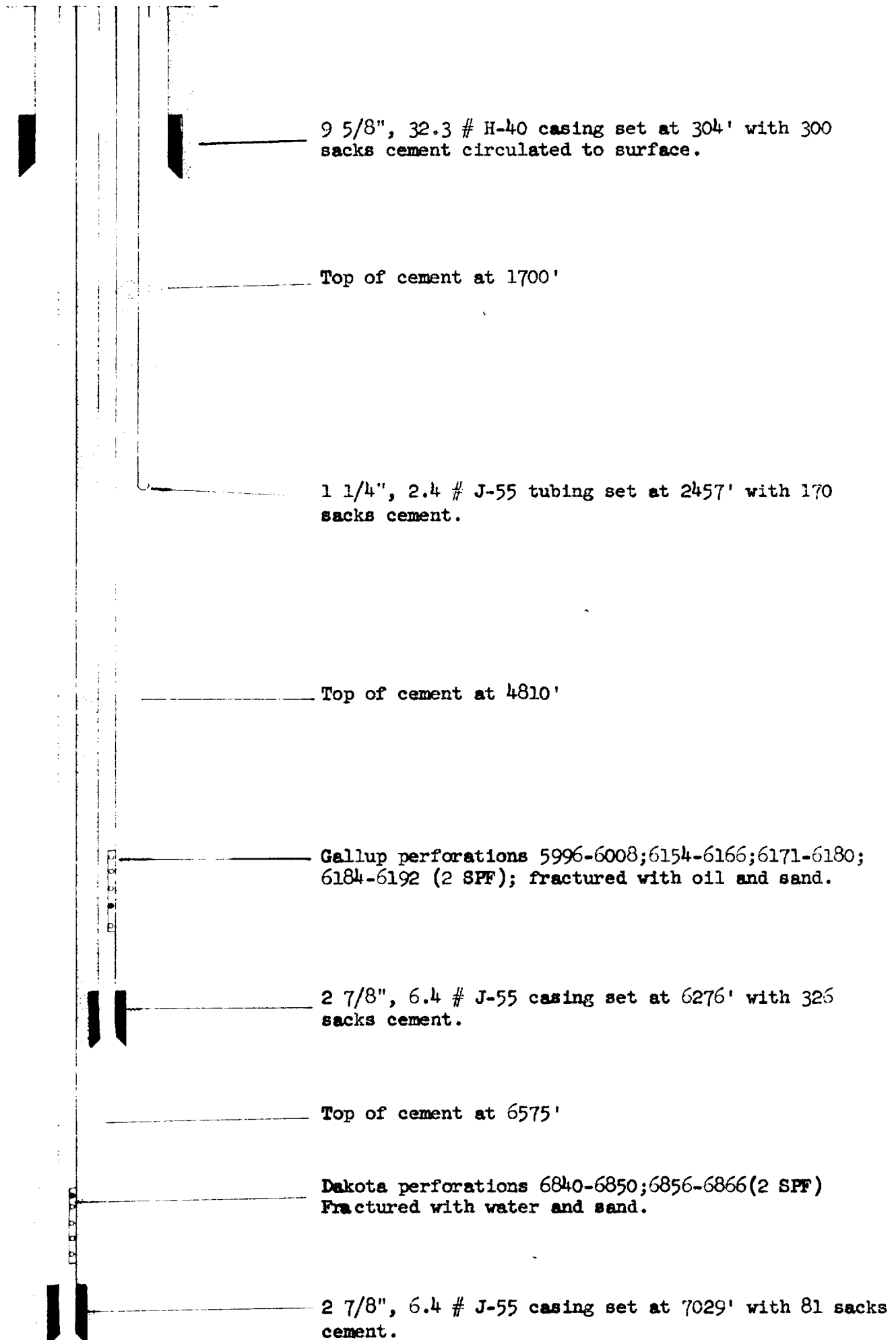
EL PASO NATURAL GAS COMPANY
EL PASO, TEXAS

FORM 7-132R (10-56)

Schematic Diagram of Dually Completed
El Paso Natural Gas Huerfano Unit No. 116(GD)
NW/4 Section 11, T-26-N, R-10-W

Dual String
Xmas Tree

Zero reference point 10.0' above
top flange of tubing hanger.



T.D. 7030'

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

EXHIBIT NO. 2

CASE NO. 2201

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 20, 1960

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 116 (DK)	
Location 990'N, 1652'W, 11-26N-10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing Diameter 2-7/8" O.D.	Set At: Feet 7021	Tubing: Diameter No tubing	Set At: Feet ---
Pay Zone From 6840	To 6884	Total Depth: 7030 C/O 7021	Shut In 12-5-60
Stimulation Method Sand/Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		"Slim Hole" Dual	
Shut-In Pressure, Casing, (G) 977	PSIG	12	PSIA	Days Shut-In 15	Shut-In Pressure, Tubing Csg 2001 (D)
Flowing Pressure: P 254	PSIG	12	PSIA		Working Pressure: Pw Calc.
Temperature 80	F				Gravity 0.740
					Fg .9005

Initial SIPC (G) = **977 psig**

Final SIPC (G) = **983 psig**

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

$Q = 12.365 \times 266 \times .9813 \times .9005 \times 1.030$

2994

MCF D

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

$A_{of} = \left(\frac{4,052,169}{3,896,144} \right)^n$

$(1.0400)^{.75}(2994) = (1.0299)(2994)$

A_{of}

3084

MCF D

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
El Paso EXHIBIT NO. 3-A
CASE NO. 2201

T.B. Grant - R.L. Nickell - C.R. Wagner

WITNESSED BY

Checked by: W. D. Dawson

Lewis D. Galloway
Lewis D. Galloway

EL PASO NATURAL GAS COMPANY

OIL WELL TEST

TO: Mr. A. J. Dudenhoeffer

DATE: February 24, 1961

FROM: Production Engineering Dept.

PLACE: Farmington, N. M.

CORRECTED COPY

SUBJECT: Gas-Oil Ratio test on El Paso Natural Gas Company well
Huerfano Unit No. 116 (Gallup)

TESTED BY: K. C. McBride

LOCATION: Sec. 11 T 21 R. 10

SHUT-IN PRESSURE: SIPC 977 psig (Shut-In 8 days)
SIPT --- psig

TIME AND DATE TEST STARTED: January 6, 1961 12:00 Noon

TIME AND DATE TEST ENDED: January 7, 1961 12:00 Noon

TOTAL PRODUCTION 24 hours Gas 272 MCF

Oil 7.8 BBLS

Water 0 BBLS

GAS-OIL RATIO: 34.871 Cubic Ft. per BBL.

PRODUCING METHOD: Flowing

PRODUCING THROUGH 2" CHOKE SEETING 14/64 INCHES

FLOWING PRESSURE --- psig TUBING: 260 psig CASING

SPM --- LENGTH OF STROKE ---

PRODUCING FORMATION: Gallup

FIELD: Angel Peak Gallup

Production Engineer

cc: B. C. Adams
Ed E. Alsup
D. N. Canfield
W. C. Cheek
E. J. Coel, Jr.
A. M. Derrick
Drilling Dept.
O. W. Fowler
C. C. Kennedy
E. S. Oberly (1) Singels - (6) Duals
L. M. Parrish
Proration Dept.
W. M. Rodgers
S. Smith
L. G. Truby
D. H. Rucker
File
+ Pan American Pet.

NOTE: This well is a tubingless completion -
Frac oil is still being removed.

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
<u>El Paso</u>	EXHIBIT NO. <u>3-B</u>
CASE NO. <u>220</u>	

Operator El Paso Natural Gas Company		Lease Huerfano Unit		Well No. 116 (GD)	
Location of Well Unit C Sec. 11 Twp 26 Rge 10		County San Juan		Type of Test Initial 12-20-60 Annual YEAR	
UPPER COMPLETION: Gallup		Oil or Gas Oil		Flowing or Artificial Lift Flowing	
LOWER COMPLETION: Dakota		Oil or Gas Gas		Flowing or Artificial Lift Flowing	
Producing Casing or Tubing Casing		Producing Casing or Tubing Casing		Producing Casing or Tubing Casing	

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION:	Hour & Date Well Shut-in 12-5-60	Length of Time Shut-in 15 days	Shut-in Pressure, PSIG 977	Stabilized Pressure (XXXXX) No)
LOWER COMPLETION:	Hour & Date Well Shut-in 12-5-60	Length of Time Shut-in 15 days	Shut-in Pressure, PSIG 2001	Stabilized Pressure (XXXXX) No)

FLOW TEST NO. 1

Zone Producing (Upper or Lower) Lower		Hour & Date Flow Started 12-20-60			
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
15 min.	979		511	72	This well is completed with two strings of 2-7/8" casing set in cement, with cement acting as packer. It is a <u>dual slim-hole</u> well
30 min.	981		430	76	
45 min.	981		362	78	
60 min.	981		339	79	
120 min.	983		287	80	
180 min.	983	(Calc.) 383	254	80	
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 2994 MCF/D	Tested Through (Choke XXXXXX)			

REMARKS:

A bottom hole bomb was run into the Gallup side to 6175 ft. and left there during the three hour test. The BHP increased from 1174 to 1181 psig during the test. BHT = 171°F.

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in 12-20-60	Length of Time Shut-in 10 days	Shut-in Pressure, PSIG 950	Stabilized Pressure (XXXXX) No)
LOWER COMPLETION:	Hour & Date Well Shut-in 12-20-60	Length of Time Shut-in 10 days	Shut-in Pressure, PSIG 1976	Stabilized Pressure (XXXXX) No)

FLOW TEST NO. 2

Zone Producing (Upper or Lower) Upper		Hour & Date Flow Started 12-30-60			
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
15 min.	845		1978		
30 min.	575		1979		
45 min.	375		1980		
60 min.	290		1982		
75 min.	145		1983		
4 days	50		1988		
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow MCF/D	Tested Through (Choke or Meter)			

REMARKS:

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
EXHIBIT NO. 4	
CASE NO. 2201	

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

19
NEW MEXICO OIL CONSERVATION COMMISSIONOPERATOR **El Paso Natural Gas Company****H. L. Kendrick**
Sr. Gas Engineer

TITLE

DATE

WELEX



INDUCTION— ELECTRIC LOG

COMPANY **EL PASO NATURAL**
GAS COMPANY
WELL **HUERFANO # 116 (GD)**
FIELD **ANGELS PEAK-KGL (EXT)**
County **& W.C.-DAKOTA**
State **SAN JUAN**
File **NEW MEXICO**

EL PASO NATURAL GAS COMPANY

HUERFANO # 116 (GD)

ANGELS PEAK-KGL (EXT) & W.C.-DAKOTA

SAN JUAN

STATE

NEW MEXICO

990' FNL 1652' FWL
SEC 11 TWP 26-N
RGE 10-W

Other
FOR

Permanent Date
Log Measured
Drilling Measured From

10' ABOVE CROWN LEVEL 6688

KELLY BUSHING
KELLY BUSHING

Elevation
6688
6687
G. 6678

Run No.

Date

Total Depth Drilled

Total Depth Well

Csg. Size

Csg. Size

Survey Base

Survey Error

Csg. Size

Bit Size

Mud Description

Weight

Viscosity

Ph.

Wtr. Loss

Res. @ Surface

Res. @ Mud

Rmf.

Rmc.

Source

Recorded

Witnessed By

Logging Tool No

10-29-60

7030

7031

300

290

7028

290

10-3/4"

8-3/4"

6-3/4"

CHEMICAL
CAUSTIC
OXIGEL

9.0

66

9.0

4.0 60

1.8 148

.5 148

2.0 148

PIT

F.L. SLOUP

MR. BOWMAN

10058

ILLEGIBLE