



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO. 2468

ORDER NO.

DATE JUNE 23, 1971

COMPANY BLACKROCK OIL COMPANY LEASE MOBIL ATLANTIC FED WELL NO. 4

FIELD VADA PENN COUNTY LEA STATE NEW MEXICO TEST NO. 1

MAIL CHARTS TO 1000 V & J TOWER BUILDING, MIDLAND, TEXAS 79701

MAIL INVOICE TO SAME

FORMATION TESTED BOUGH "C" TOTAL DEPTH 9850' MAIN HOLE 7 7/8" RAT HOLE
INTERVAL TESTED FROM 9800' TO 9850' PACKER TYPE BT SIZE 6 3/4" NUMBER 2
DRILL PIPE SIZE 4 1/2"XH D. 3.826 DRILL COLLAR SIZE 4"H90 I.D. 2.25
TIME PACKER SET 5:20 A.M. P.M. PACKER SET 2 HRS. 40 MIN. PRE FLO TIME 10 MINS.
INITIAL FLOW - MINS. 2ND FLOW - MINS. FINAL FLOW 60 MINS.
INITIAL SHUT-IN 30 MINS. 2ND SHUT-IN - MINS. FINAL SHUT-IN 60 MINS.
RECORDER TYPE AK-1 CAPACITY 7500-8000# NUMBER: TOP 2837 BOTTOM 1645
TOP RECORDER DEPTH 9845' BOTTOM RECORDER DEPTH 9850'
MAX. TEMP. 148° TEMP DEPTH 9846' CHOKE SIZE: TOP 1"ADJ. BOTTOM 5/8"
MUD TYPE SALT BASE MUD WEIGHT 9.6 VISCOSITY 52 FILTER CAKE 2/32 WTR. LOSS 12.2
FLUID CUSHION TYPE NONE AMOUNT REVERSED OUT YES NO X
CONVENTIONAL TEST YES STRADDLE TEST CASING TEST MISS RUN
SECOND ASSEMBLY YES ROTARY JAR YES SAFETY JOINT YES
SAMPLER YES NO X FFE FLOW TOOL YES NO X CIRC. SUB YES NO X
SURFACE ACTION: WEAK TO STRONG BLOW, GAS TO SURFACE IN 25 MINUTES, REOPEN TOOL
WITH STRONG BLOW, GAS AT ONCE. STRONG BLOW THROUGHOUT REMAINDER
OF TEST.

RECOVERY: 800' FLUID: 750' HEAVY OIL & GAS CUT OIL WITH SOME EMULSIFIED WATER
5' FREE OIL 47 GRAVITY AT 82°
45' WATER 95,000 PPM CHLORIDES RESISTIVITY .07 @ 86°
PIT CHLORIDES 120,000 PPM CHLORIDES.

REMARKS: 660' TOTAL DRILL COLLAR LENGTH. 20' PERFORATION.
GAS RATES: TIME PRESSURE C.F.P.D. 1" CHOKE
6:05 12 700,000
6:20 32 1,000,000
6:40 34 1,001,000
7:00 35 1,001,000
TESTER C. E. MCCORMICK TEST APPROVED BY NORBERT D. MCINTY

	RECORDER NO. 2837		RECORDER NO.		RECORDER NO.
A INITIAL HYDROSTATIC PRESSURE	5198	P.S.I.		P.S.I.	P.S.I.
B INITIAL SHUT IN PRESSURE	939	P.S.I.	B-1	P.S.I.	P.S.I.
C INITIAL FLOW PRESSURE	543	P.S.I.	C-1	P.S.I.	P.S.I.
D FINAL FLOW PRESSURE	390	P.S.I.	D-1	P.S.I.	P.S.I.
E FINAL SHUT IN PRESSURE	913	P.S.I.		P.S.I.	P.S.I.
F FINAL HYDROSTATIC PRESSURE	5029	P.S.I.		P.S.I.	P.S.I.

DRILL STEM TEST PRESSURE BREAKDOWN RESULTS

Odessa, Texas

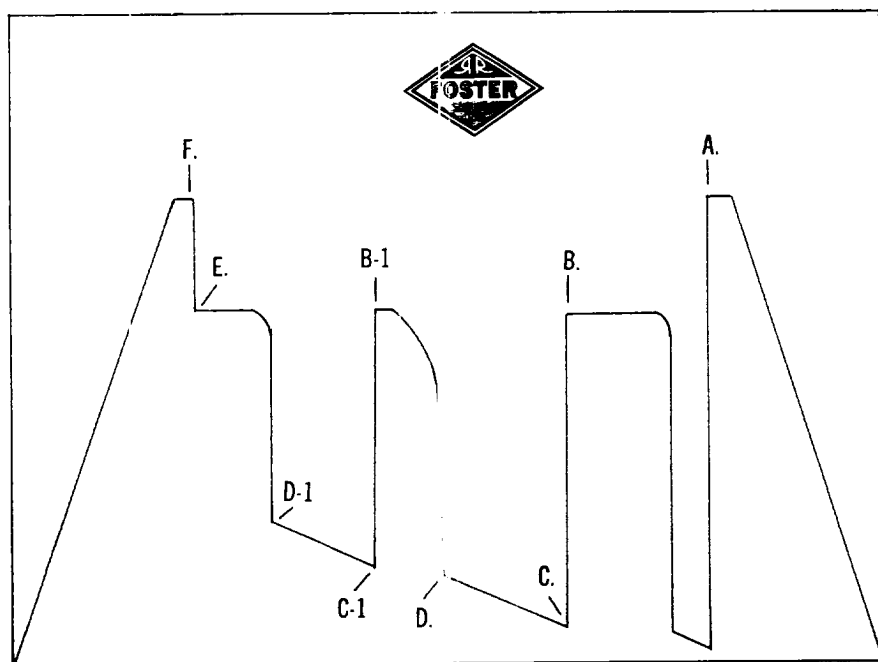
TEST DATE 7-23-71 RECORDER NO. 2837 CAPACITY 7500# CLOCK NO. TICKET NO. 2468

TYPE RECORDER AK-1 TO OR BOTTOM RECORDER TOP RECORDER DEPTH 9845' OTHER 9850'

Initial Flow time, to: 10 min. ISIP time 30 min. Flow Period Time, to: 60 min. FSIP time 60 min. Packer Set 160 min.

[illegible]

IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. INITIAL HYD. FLUID
- B. INITIAL SHUT IN
- C. INITIAL FLOW
- D. FINAL FLOW
- E. FINAL SHUT IN
- F. FINAL HYD. FLUID
- B-1 SECOND SHUT IN
- C-1 SECOND FLOW
- D-1 FINAL FLOW

