



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO. 2376

ORDER NO.

DATE AUGUST 7, 1970

COMPANY BLACKROCK OIL COMPANY

LEASE ATLANTIC FEDERAL WELL NO. 2

FIELD CROSSROADS COUNTY IEA

STATE NEW MEXICO TEST NO. 1

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

MAIL INVOICE TO SAME

FORMATION TESTED - TOTAL DEPTH 9,100' MAIN HOLE 7 7/8" RAT HOLE -
INTERVAL TESTED FROM 9,050' TO 9,100' PACKER TYPE B-T SIZE 6 5/8" NUMBER 2
DRILL PIPE SIZE 4 1/2" F.H. I.D. 3.80" DRILL COLLAR SIZE 4 1/2" H-90 I.D. 2 1/8"
TIME PACKER SET 5:00 A.M. P.M. PACKER SET 1 HRS. 45 MIN. PRE FLO TIME 15 MINS.
INITIAL FLOW - MINS. 2ND FLOW - MINS. FINAL FLOW 30 MINS.
INITIAL SHUT-IN 30 MINS. 2ND SHUT-IN - MINS. FINAL SHUT-IN 30 MINS.
RECORDER TYPE - CAPACITY 5350-4300 NUMBER: TOP 2827 BOTTOM 3874
TOP RECORDER DEPTH 9090' BOTTOM RECORDER DEPTH 9095'
MAX. TEMP. 150° TEMP. DEPTH 9095' CHOKE SIZE: TOP 1' ADJ. BOTTOM 5/8"
MUD TYPE - MUD WEIGHT 9.3 VISCOSITY 42 FILTER CAKE 3 / 32 WTR. LOSS 18.6
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: TOOL OPENED WITH FAIR BLOW. MUD BEGAN FALLING SLOWLY. AFTER 8 MINUTES
MUD STOPPED FALLING. AFTER 30 MINUTES INITIAL SHUT IN PRESSURE TOOL
OPENED WITH VERY WEAK BLOW. THEN DIED. AFTER 10 MINUTES BYPASSED TOOL
REOPENED WITH WEAK BLOW FOR 7 MINUTES THEN DIED. INITIAL SHUT IN
BEING AFFECTED BY HYDROSTATIC PRESSURE. PRESSURE THROUGH FRACTURES.

RECOVERY: 600' DRILLING FLUID.

REMARKS: 15 MINUTE PRE FLOW TIME.
510' TOTAL DRILL COLLAR LENGTH.

TESTER FRANK WILLIAMS

TEST APPROVED BY

	RECORDER NO. 3874	P.S.I.	RECORDER NO.	P.S.I.	RECORDER NO.	P.S.I.
A INITIAL HYDROSTATIC PRESSURE	4614	P.S.I.		P.S.I.		P.S.I.
B INITIAL SHUT IN PRESSURE	NONE	P.S.I.	B-1	P.S.I.		P.S.I.
C INITIAL FLOW PRESSURE	338	P.S.I.	C-1	P.S.I.		P.S.I.
D FINAL FLOW PRESSURE	338	P.S.I.	D-1	P.S.I.		P.S.I.
E FINAL SHUT IN PRESSURE	474	P.S.I.		P.S.I.		P.S.I.
F FINAL HYDROSTATIC PRESSURE	4614	P.S.I.		P.S.I.		P.S.I.



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO. 2377

ORDER NO.

DATE AUGUST 8, 1970

COMPANY BLACKROCK OIL COMPANY LEASE ATLANTIC FEDERAL WELL NO. 2

FIELD CROSSROADS COUNTY LEA STATE NEW MEXICO TEST NO. 2

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

MAIL INVOICE TO SAME

FORMATION TESTED - TOTAL DEPTH 9,100' MAIN HOLE 7 7/8" RAT HOLE -
INTERVAL TESTED FROM 9,030 TO 9,100' PACKER TYPE B-T SIZE 6 5/8" NUMBER 2
DRILL PIPE SIZE 4 1/2" F.H. I.D. 3.80" DRILL COLLAR SIZE 4 1/2" H-90 I.D. 2 1/8"
TIME PACKER SET 4:05 A.M. P.M. PACKER SET 3 HRS. 15 MIN. PRE FLO TIME 15 MINS.
INITIAL FLOW - MINS. 2ND FLOW - MINS. FINAL FLOW 30 MINS.
INITIAL SHUT-IN 90 MINS. 2ND SHUT-IN - MINS. FINAL SHUT-IN 60 MINS.
RECORDER TYPE AK-1 CAPACITY 660-5350 NUMBER: TOP 2755 BOTTOM 3874
TOP RECORDER DEPTH 9,090' BOTTOM RECORDER DEPTH 9,095'
MAX. TEMP. 150° TEMP. DEPTH 9,095' CHOKE SIZE: TOP 1" ADJ. BOTTOM 5/8"
MUD TYPE GEL MUD WEIGHT 9-2 VISCOSITY 46 FILTER CAKE 3/32 WTR. LOSS 18.4
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: TOOL OPENED WITH VERY WEAK BLOW. MUD FELL SLIGHTLY THEN STOPPED
AFTER 90 MINUTES INITIAL SHUT IN PRESSURE, TOOL OPENED WITH VERY
WEAK BLOW, INCREASING TO FAIR BLOW. MUD FELL VERY SLOWLY FOR 30
MINUTES, CLOSED TOOL FOR 60 MINUTES FINAL SHUT IN. BOTH SHUT INS
PROBABLY BEING AFFECTED BY HYDROSTATIC PRESSURE THROUGH FRACTURES.

RECOVERY: 800' DRILLING FLUID.

REMARKS: 15 MINUTES PRE FLOW TIME.
510' TOTAL DRILL COLLAR LENGTH.

TESTER FRANK WILLIAMS TEST APPROVED BY

	RECORDER NO. 3874		RECORDER NO.		RECORDER NO.
A INITIAL HYDROSTATIC PRESSURE	4341	P.S.I.		P.S.I.	
B INITIAL SHUT IN PRESSURE	3184	P.S.I.	B-1	P.S.I.	
C INITIAL FLOW PRESSURE	203	P.S.I.	C-1	P.S.I.	
D FINAL FLOW PRESSURE	406	P.S.I.	D-1	P.S.I.	
E FINAL SHUT IN PRESSURE	2437	P.S.I.		P.S.I.	
F FINAL HYDROSTATIC PRESSURE	4341	P.S.I.		P.S.I.	



FOSTER TESTERS, INC.

ODESSA, TEXAS

TEST TICKET NO.

2378

ORDER NO.

DATE AUGUST 19, 1970

COMPANY BLACKROCK OIL COMPANY LEASE ATLANTIC FEDERAL WELL NO. 2
FIELD CROSSROADS COUNTY LEA STATE NEW MEXICO TEST NO. 3

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

MAIL INVOICE TO SAME

FORMATION TESTED BOUGH-C TOTAL DEPTH 9,905' MAIN HOLE 7 7/8" RAT HOLE -
INTERVAL TESTED FROM 9,830' TO 9,905' PACKER TYPE B-T SIZE 6 5/8" NUMBER 2
DRILL PIPE SIZE 4 1/2" F.H. I.D. 3.80" DRILL COLLAR SIZE 4 1/2" H-90 I.D. 2 1/8"
TIME PACKER SET A.M. 3:07 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 AS-1 CAPACITY 6600-7500 NUMBER: TOP 2837 BOTTOM 2755
TOP RECORDER DEPTH 9900' BOTTOM RECORDER DEPTH 9895'
MAX. TEMP. BROKE TEMP. DEPTH - CHOKE SIZE: TOP 1" ADJ BOTTOM 5/8"
MUD TYPE GEL MUD WEIGHT 9.1 VISCOSITY 48 FILTER CAKE 3/32 WTR. LOSS 14.8
FLUID CUSHION TYPE NONE AMOUNT - REVERSED OUT YES X NO -
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 X NO
SURFACE ACTION: TOOL OPENED WITH GOOD BLOW, GAS TO SURFACE IN 7 MINUTES.
700,000 CUBIC FEET PER DAY. AFTER 30 MINUTE INITIAL SHUT IN PRESSURE
TOOL OPENED WITH GOOD BLOW, FLOWED GAS AT RATE OF 1,250,000 CUBIC
FEET PER DAY ON 1" CHOKE.

RECOVERY: 11,00' OIL 45 GRAVITY AT 80°.
550' HEAVY OIL AND GAS CUT MUD.

REMARKS: 10 MINUTES PRE FLOW TIME.
500' TOTAL DRILL COLLAR LENGTH.

TESTER FRANK WILLIAMS

TEST APPROVED BY

A INITIAL HYDROSTATIC PRESSURE
B INITIAL SHUT IN PRESSURE
C INITIAL FLOW PRESSURE
D FINAL FLOW PRESSURE
E FINAL SHUT IN PRESSURE
F FINAL HYDROSTATIC PRESSURE

RECORDER NO. 2837
5121 P.S.I.
1837 P.S.I.
814 P.S.I.
833 P.S.I.
1837 P.S.I.
5121 P.S.I.

RECORDER NO.

P.S.I.
P.S.I.
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RECORDER NO.

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P.S.I.

P. O. BOX 1876



MIDLAND, TEXAS
79701

August 25, 1970

Blackrock Oil Company
400 N. Harienfeld
Midland, Texas

Gentlemen:

The following is the inclination report on your Mobil Atlantic Federal #2,
located in Sec. 10-9-36, Lea County, New Mexico:

Depth	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
400	1	7.10	7.10
587	1	8.42	15.52
1337	1	8.75	24.27
1355	3/4	6.13	30.40
2355	3/4	6.55	36.95
3260	1	15.83	52.78
3727	1	8.17	60.95
4000	1/2	2.37	63.32
4318	3/4	10.71	74.03
5406	1	10.29	84.32
5545	1-1/2	14.12	98.44
5404	1/2	3.99	102.43
5904	3/4	6.55	108.98
7448	3/4	7.12	116.10
7937	1	8.56	124.66
8305	1/2	3.21	127.87
8598	3/4	3.82	131.69
8820	1-1/2	5.82	137.51
9414	1	8.64	146.15
9580	3/4	2.17	148.32
9900	1/2	2.78	151.10
Total			151.10

Sincerely yours,

F W A Drilling Company, Inc.

By

Clint Hurt

Before personally appeared Clint Hurt known to me to be the person whose name
is subscribed above. Witnesseth my hand this the 25th day of August, 1970.

Jackie Snoddy, Notary Public in and
for Midland County, Texas

RECEIVED

SEP 1 1970

OLIVER & OHIO
CINCINNATI, OHIO