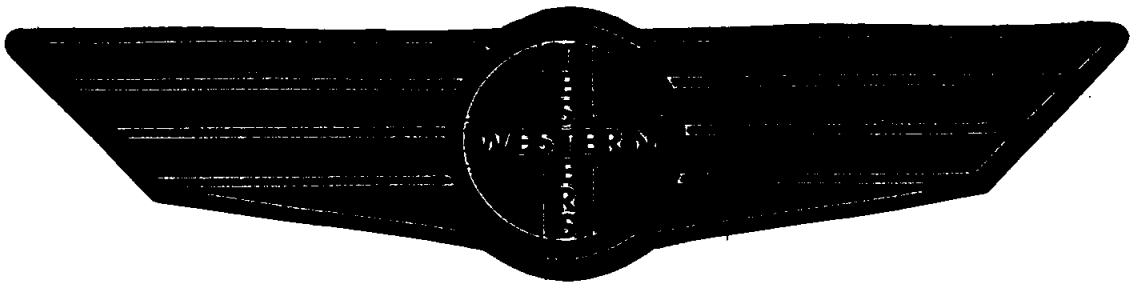
FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone **1-800-688-7021**

COMPANY RANGE OIL COMPANY, INC. LEASE & WELL NO. #1 NIGH SEC. 21 TWP. 30S RGE. 10E TEST NO. 1 DATE 9/11/92

DST REPORT

GENERAL INFORMATION

DATE	: 9/21/92	TICKET	: 18606
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: NIGH
WELL	: 1 TEST: 1	GEOLOGIST	: THOMAS E. BLAIR
ELEVATION	: 1137 KB	FORMATION	: MISSISSIPPI
SECTION	: 21	TOWNSHIP	: 30S
RANGE	: 10E COUNTY: ELK	STATE	: KS
GAUGE SN#	: 10979 RANGE : 4100	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2122.00 ft TO: 2140.00 ft TVD: 2140.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 2133.0 ft 2137.0 ft
TEMPERATURE: 101.0

DRILL COLLAR LENGTH:	240.0 ft	I.D.:	2.500 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	1862.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	18.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5FH
PACKER DEPTH:	2117.0 ft	SIZE:	6.630 in
PACKER DEPTH:	2122.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: GLAVES RIG 1		
MUD TYPE	: CHEMICAL	VISCOSITY :	40.00 cp
WEIGHT	: 9.900 ppg	WATER LOSS:	10.400 cc
CHLORIDES	: 1200 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW, DIED IN 18 MIN.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	DRLG MUD W/TRACE OF OIL

RATE INFORMATION

OIL VOLUME:	0.0000 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	60.0000 min.
MUD VOLUME:	0.0304 STB	AVERAGE OIL RATE:	0.7285 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.0304 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1205.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	30.00	30.00
INITIAL SHUT-IN	30.00		40.00
FINAL FLOW	30.00	30.00	30.00
FINAL SHUT-IN	30.00		30.00

FINAL HYDROSTATIC PRESSURE: 1195.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1138.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.00	35.00
INITIAL SHUT-IN	30.00		45.00
FINAL FLOW	30.00	32.00	32.00
FINAL SHUT-IN	30.00		36.00

FINAL HYDROSTATIC PRESSURE: 1100.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9/21/92	TICKET	: 18606
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: NIGH
WELL	: 1 TEST: 1	GEOLOGIST	: THOMAS E. BLAIR
ELEVATION	: 1137 KB	FORMATION	: MISSISSIPPI
SECTION	: 21	TOWNSHIP	: 30S
RANGE	: 10E COUNTY: ELK	STATE	: KS
GAUGE SN#	: 10979 RANGE : 4100	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	33.00	33.00
5.00	33.00	0.00
10.00	33.00	0.00
15.00	33.00	0.00
20.00	35.00	2.00
25.00	35.00	0.00
30.00	35.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	35.00	35.00	0.00
6.00	36.00	1.00	0.00
9.00	36.00	0.00	0.00
12.00	37.00	1.00	0.00
15.00	38.00	1.00	0.00
18.00	39.00	1.00	0.00
21.00	40.00	1.00	0.00
24.00	41.00	1.00	0.00
27.00	43.00	2.00	0.00
30.00	45.00	2.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	32.00	32.00

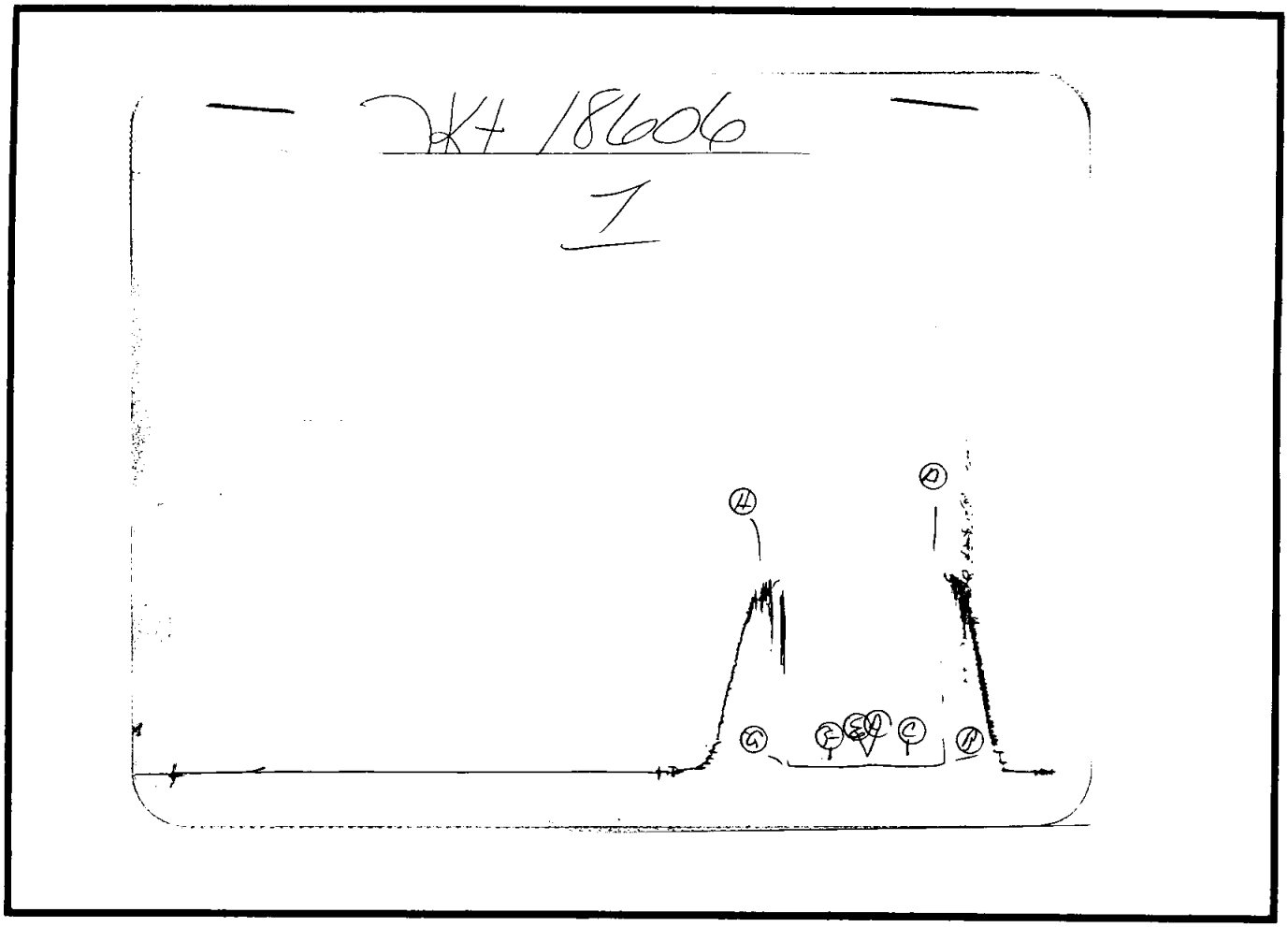
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

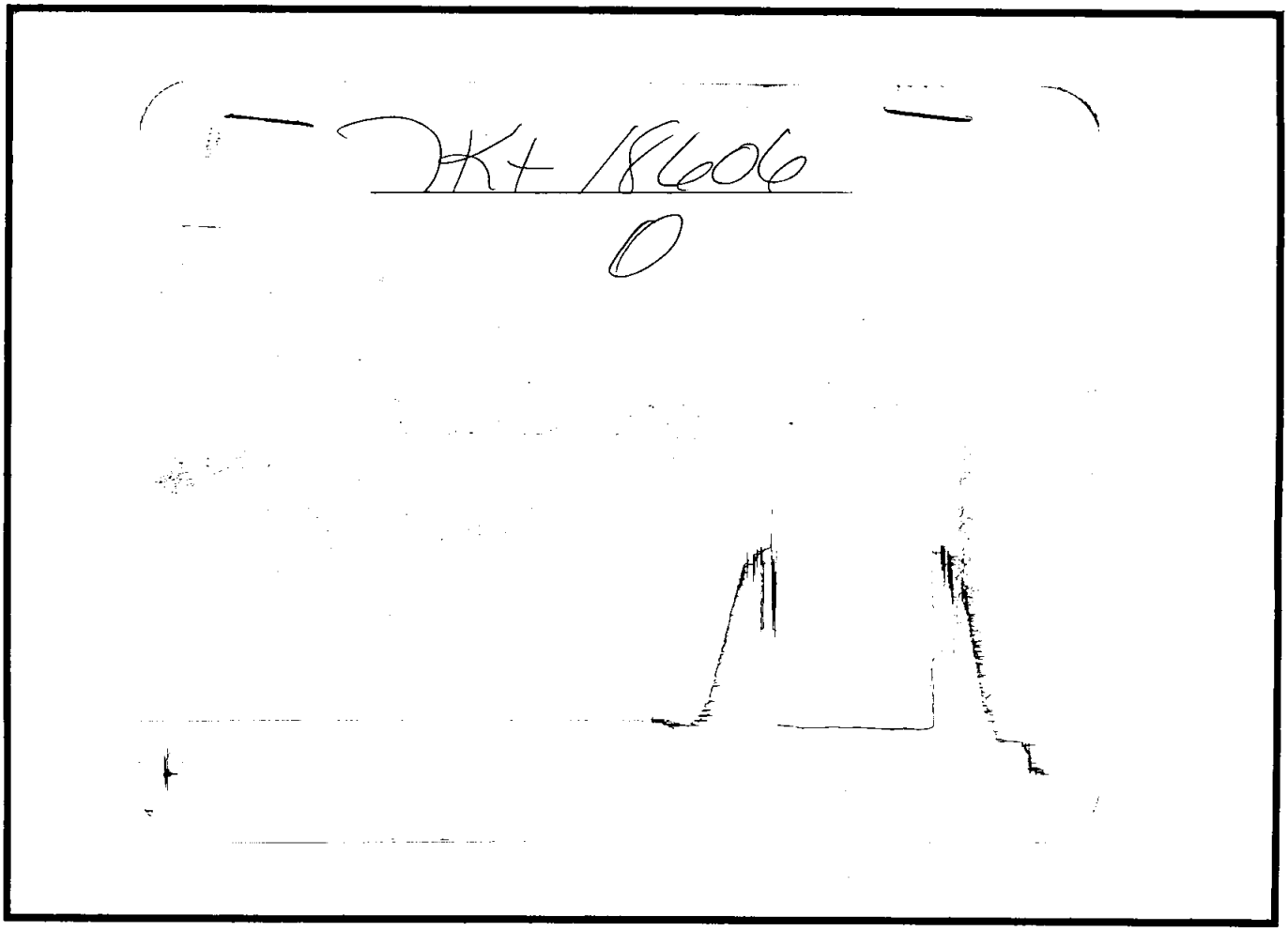
Time (min)	Pressure	Delta P
5.00	32.00	0.00
10.00	32.00	0.00
15.00	32.00	0.00
20.00	32.00	0.00
25.00	32.00	0.00
30.00	32.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	32.00	32.00	0.00
6.00	32.00	0.00	0.00
9.00	32.00	0.00	0.00
12.00	32.00	0.00	0.00
15.00	32.00	0.00	0.00
18.00	32.00	0.00	0.00
21.00	33.00	1.00	0.00
24.00	34.00	1.00	0.00
27.00	35.00	1.00	0.00
30.00	36.00	1.00	0.00



Inside Recorder



Outside Recorder