

DST REPORT

GENERAL INFORMATION

DATE : 4-12-95 TICKET : 19743
CUSTOMER : RED OAK ENERGY LEASE : NICKELSON
WELL : 1-30 TEST: 1 GEOLOGIST: SCOTT BANKS
ELEVATION: 3808 K.B. FORMATION: MORROW
SECTION : 30 TOWNSHIP : 15S
RANGE : 41W COUNTY: WALLACE STATE : KS
GAUGE SN#: 1562 RANGE : 3900 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5022.00 ft TO: 5065.00 ft TVD: 5065.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 5040.0 ft 5043.0 ft
TEMPERATURE: 130.0

DRILL COLLAR LENGTH: 540.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4455.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 27.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 43.0 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 : 4.5XH
PACKER DEPTH: 5017.0 ft SIZE: 6.630 in
PACKER DEPTH: 5022.0 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. : MURFIN #3
MUD TYPE : CHEMICAL VISCOSITY : 48.00 cp
WEIGHT : 9.400 ppg WATER LOSS: 9.600 cc
CHLORIDES : 8500 ppm
JARS-MAKE : WTC SERIAL NUMBER: 401
DID WELL FLOW?: NO REVERSED OUT?: YES

COMMENTS

Comment

STRONG BLOW OFF BOTTOM OF BUCKET IN 2 MINUTES ON
INITIAL FLOW PERIOD. STRONG BLOW DECREASING TO
FAIR 6" IN BUCKET ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2100.0	0.0	0.0	75.0	25.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 67000 PPM
0.0	0.0	0.0	0.0	0.0	RW .01 AT 70 DEG. F.

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	6.1341 STB	AVERAGE WATER RATE:	392.5849 STB/D
WATER VOLUME:	18.4024 STB		
TOTAL FLUID :	24.5366 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2527.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	757.00	926.00
INITIAL SHUT-IN	45.00		996.00
FINAL FLOW	60.00	966.00	996.00
FINAL SHUT-IN	60.00		996.00

FINAL HYDROSTATIC PRESSURE: 2418.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2517.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	758.00	937.00
INITIAL SHUT-IN	39.00		989.00
FINAL FLOW	60.00	976.00	1004.00
FINAL SHUT-IN	60.00		1016.00

FINAL HYDROSTATIC PRESSURE: 2450.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4-12-95	TICKET : 19743
CUSTOMER : RED OAK ENERGY	LEASE : NICKELSON
WELL : 1-30 TEST: 1	GEOLOGIST: SCOTT BANKS
ELEVATION: 3808 K.B.	FORMATION: MORROW
SECTION : 30	TOWNSHIP : 15S
RANGE : 41W COUNTY: WALLACE	STATE : KS
GAUGE SN#: 1562 RANGE : 3900	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	758.00	758.00
5.00	745.00	-13.00
10.00	773.00	28.00
15.00	818.00	45.00
20.00	859.00	41.00
25.00	895.00	36.00
30.00	937.00	42.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	937.00	937.00	0.00
6.00	948.00	11.00	0.00
9.00	958.00	10.00	0.00
12.00	965.00	7.00	0.00
15.00	971.00	6.00	0.00
18.00	973.00	2.00	0.00
21.00	976.00	3.00	0.00
24.00	978.00	2.00	0.00
27.00	980.00	2.00	0.00
30.00	982.00	2.00	0.00
33.00	984.00	2.00	0.00
36.00	986.00	2.00	0.00
39.00	989.00	3.00	0.00

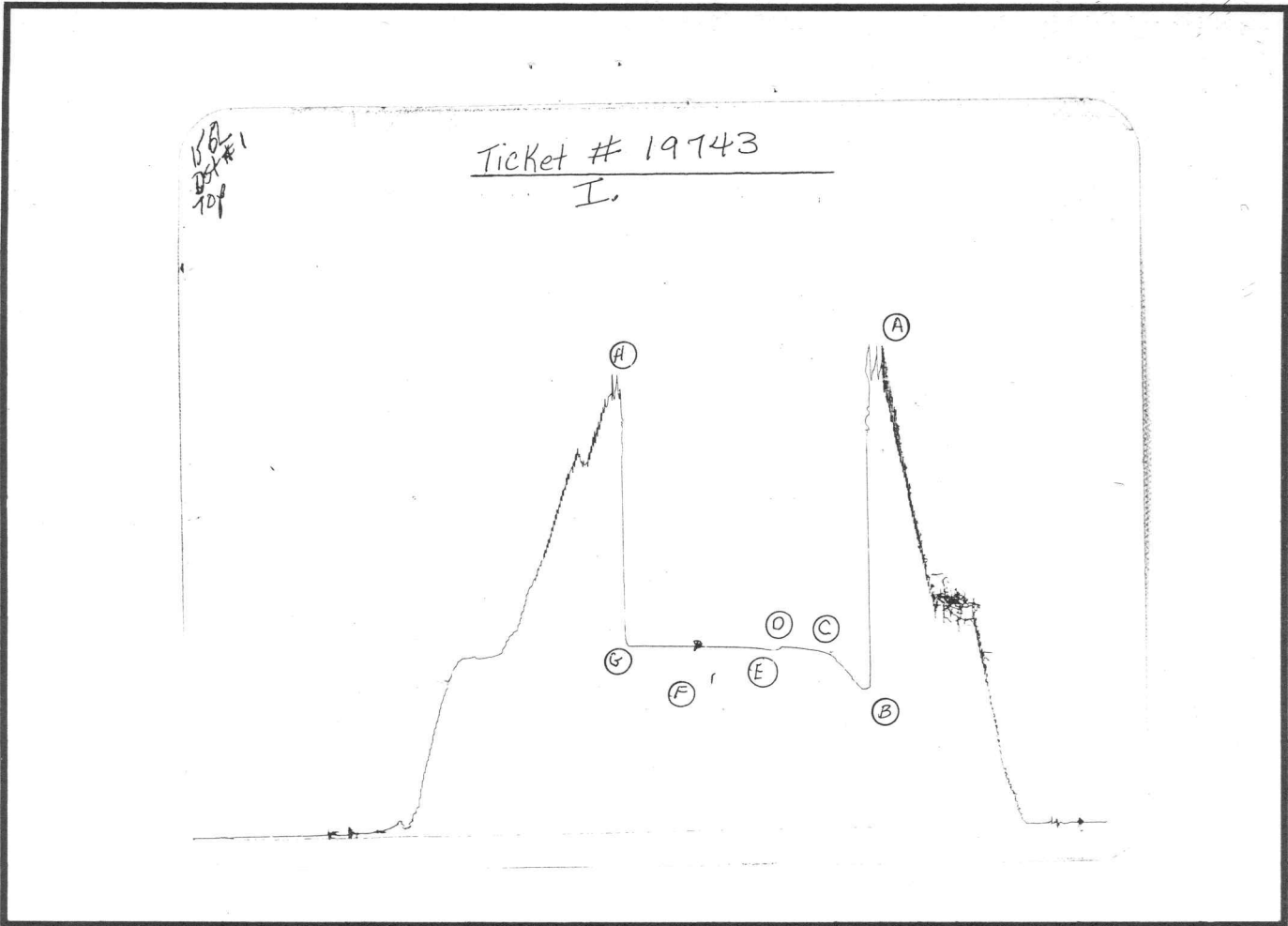
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

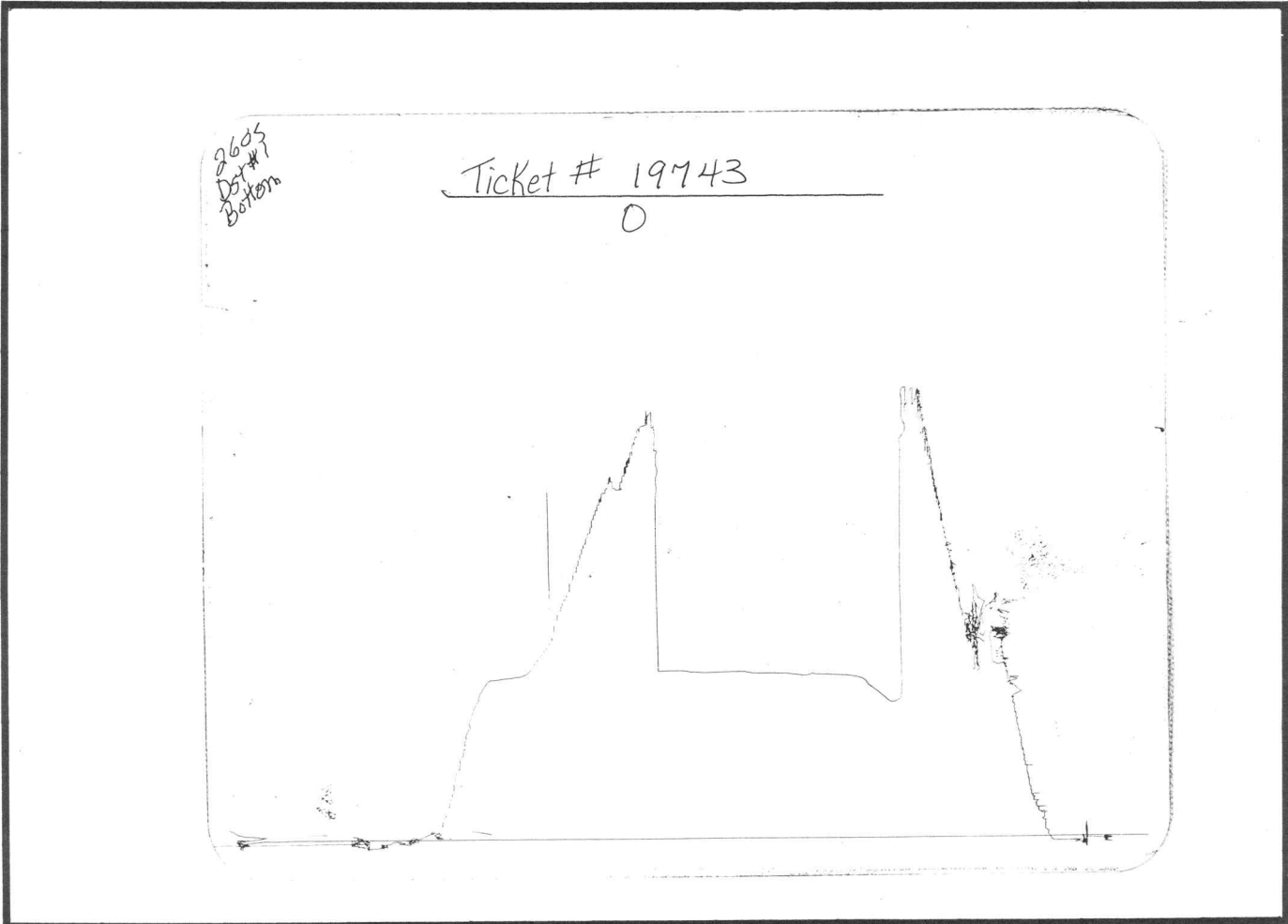
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	976.00	976.00
5.00	976.00	0.00
10.00	984.00	8.00
15.00	988.00	4.00
20.00	990.00	2.00
25.00	992.00	2.00
30.00	994.00	2.00
35.00	996.00	2.00
40.00	998.00	2.00
45.00	1000.00	2.00
50.00	1002.00	2.00
55.00	1003.00	1.00
60.00	1004.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1004.00	1004.00	0.00
6.00	1010.00	6.00	0.00
9.00	1010.00	0.00	0.00
12.00	1010.00	0.00	0.00
15.00	1011.00	1.00	0.00
18.00	1011.00	0.00	0.00
21.00	1011.00	0.00	0.00
24.00	1012.00	1.00	0.00
27.00	1012.00	0.00	0.00
30.00	1012.00	0.00	0.00
33.00	1013.00	1.00	0.00
36.00	1013.00	0.00	0.00
39.00	1013.00	0.00	0.00
42.00	1014.00	1.00	0.00
45.00	1014.00	0.00	0.00
48.00	1015.00	1.00	0.00
51.00	1015.00	0.00	0.00
54.00	1016.00	1.00	0.00
57.00	1016.00	0.00	0.00
60.00	1016.00	0.00	0.00



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 4-14-95	TICKET	: 19744		
CUSTOMER	: RED OAK ENERGY	LEASE	: NICKELSON		
WELL	: 1-30	TEST: 2	GEOLOGIST: SCOTT BANKS		
ELEVATION:	3808 K.B.	FORMATION:	MORROW		
SECTION	: 30	TOWNSHIP	: 15S		
RANGE	: 41W	COUNTY: WALLACE	STATE	: KS	
GAUGE SN#:	1562	RANGE	: 3900	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4934.00 ft	TO:	5020.00 ft	TVD:	5032.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4940.0 ft	4943.0 ft			
TEMPERATURE:	129.0				
DRILL COLLAR LENGTH:	480.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4931.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	86.0 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 :	4.5XH		
PACKER DEPTH:	4929.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4934.0 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. :	MURFIN #3	VISCOSITY :	62.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.400 ppg		
CHLORIDES :	8500 ppm	SERIAL NUMBER:	401
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	YES		

COMMENTS

Comment

STRONG BLOW OFF BOTTOM OF BUCKET GAS TO SURFACE IN 10 MINUTES ON INITIAL FLOW PERIOD. SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

212' OF TAIL PIPE 60' OF DRILL PIPE IN ANCHOR/

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
55.0	100.0	0.0	0.0	0.0	FREE GASSY OIL
0.0	0.0	0.0	0.0	0.0	37 GRAVITY AT 60 DEG. F.
1025.0	1.0	0.0	70.0	29.0	MUDDY WATER W/TRACE OF
0.0	0.0	0.0	0.0	0.0	OIL
0.0	0.0	0.0	0.0	0.0	CHLORIDES 52000 PPM

RATE INFORMATION

OIL VOLUME:	0.8715 STB	TOTAL FLOW TIME:	85.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	15.4565 STB/D
MUD VOLUME:	2.9014 STB	AVERAGE WATER RATE:	167.1051 STB/D
WATER VOLUME:	7.0033 STB		
TOTAL FLUID :	10.7762 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2527.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	728.00	896.00
INITIAL SHUT-IN	45.00		1055.00
FINAL FLOW	60.00	896.00	936.00
FINAL SHUT-IN	60.00		1061.00

FINAL HYDROSTATIC PRESSURE: 2478.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2528.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	698.00	884.00
INITIAL SHUT-IN	45.00		1056.00
FINAL FLOW	55.00	880.00	918.00
FINAL SHUT-IN	60.00		1056.00

FINAL HYDROSTATIC PRESSURE: 2472.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 4-14-95	TICKET : 19744
CUSTOMER : RED OAK ENERGY	LEASE : NICKELSON
WELL : 1-30 TEST: 2	GEOLOGIST: SCOTT BANKS
ELEVATION: 3808 K.B.	FORMATION: MORROW
SECTION : 30	TOWNSHIP : 15S
RANGE : 41W COUNTY: WALLACE	STATE : KS
GAUGE SN#: 1562 RANGE : 3900	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
20 MIN.	MERLA	0.500	10 PSIG	112000 SCF/D
30 MIN.	MERLA	0.250	14 PSIG	37600 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN.	MERLA	0.250	16 PSIG	40900 SCF/D
20 MIN.	MERLA	0.250	10 PSIG	30800 SCF/D
30 MIN.	MERLA	0.250	8 PSIG	27000 SCF/D
40 MIN.	MERLA	0.250	6 PSIG	22900 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4-14-95	TICKET	: 19744
CUSTOMER	: RED OAK ENERGY	LEASE	: NICKELSON
WELL	: 1-30	TEST:	2
ELEVATION:	3808 K.B.	GEOLOGIST:	SCOTT BANKS
SECTION	: 30	FORMATION:	MORROW
RANGE	: 41W	COUNTY:	WALLACE
GAUGE SN#:	1562	RANGE	: 3900
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	698.00	698.00
5.00	751.00	53.00
10.00	787.00	36.00
15.00	817.00	30.00
20.00	849.00	32.00
25.00	875.00	26.00
30.00	884.00	9.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1017.00	1017.00	11.00
6.00	1030.00	13.00	6.00
9.00	1036.00	6.00	4.33
12.00	1047.00	11.00	3.50
15.00	1049.00	2.00	3.00
18.00	1052.00	3.00	2.67
21.00	1053.00	1.00	2.43
24.00	1054.00	1.00	2.25
27.00	1055.00	1.00	2.11
30.00	1056.00	1.00	2.00
33.00	1056.00	0.00	1.91
36.00	1056.00	0.00	1.83
39.00	1056.00	0.00	1.77
42.00	1056.00	0.00	1.71
45.00	1056.00	0.00	1.67

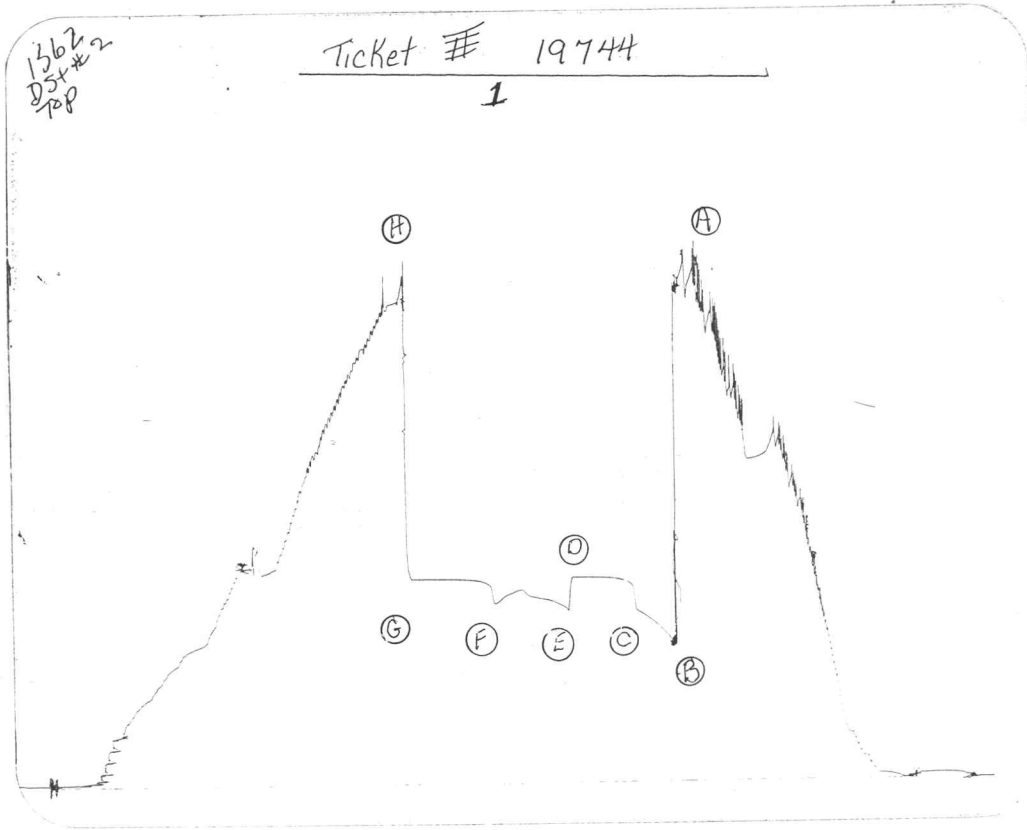
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

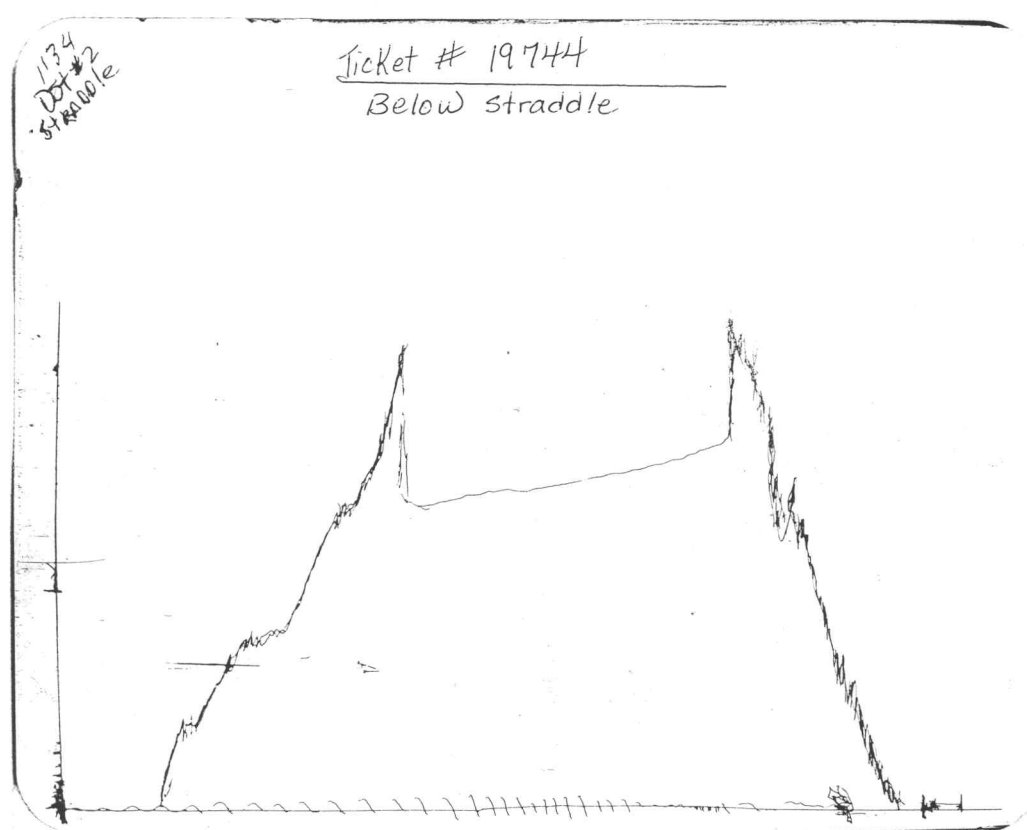
Time (min)	Pressure	Delta P
0.00	880.00	880.00
5.00	916.00	36.00
10.00	931.00	15.00
15.00	942.00	11.00
20.00	951.00	9.00
25.00	957.00	6.00
30.00	969.00	12.00
35.00	995.00	26.00
40.00	984.00	-11.00
45.00	966.00	-18.00
50.00	941.00	-25.00
55.00	918.00	-23.00

FINAL SHUT IN

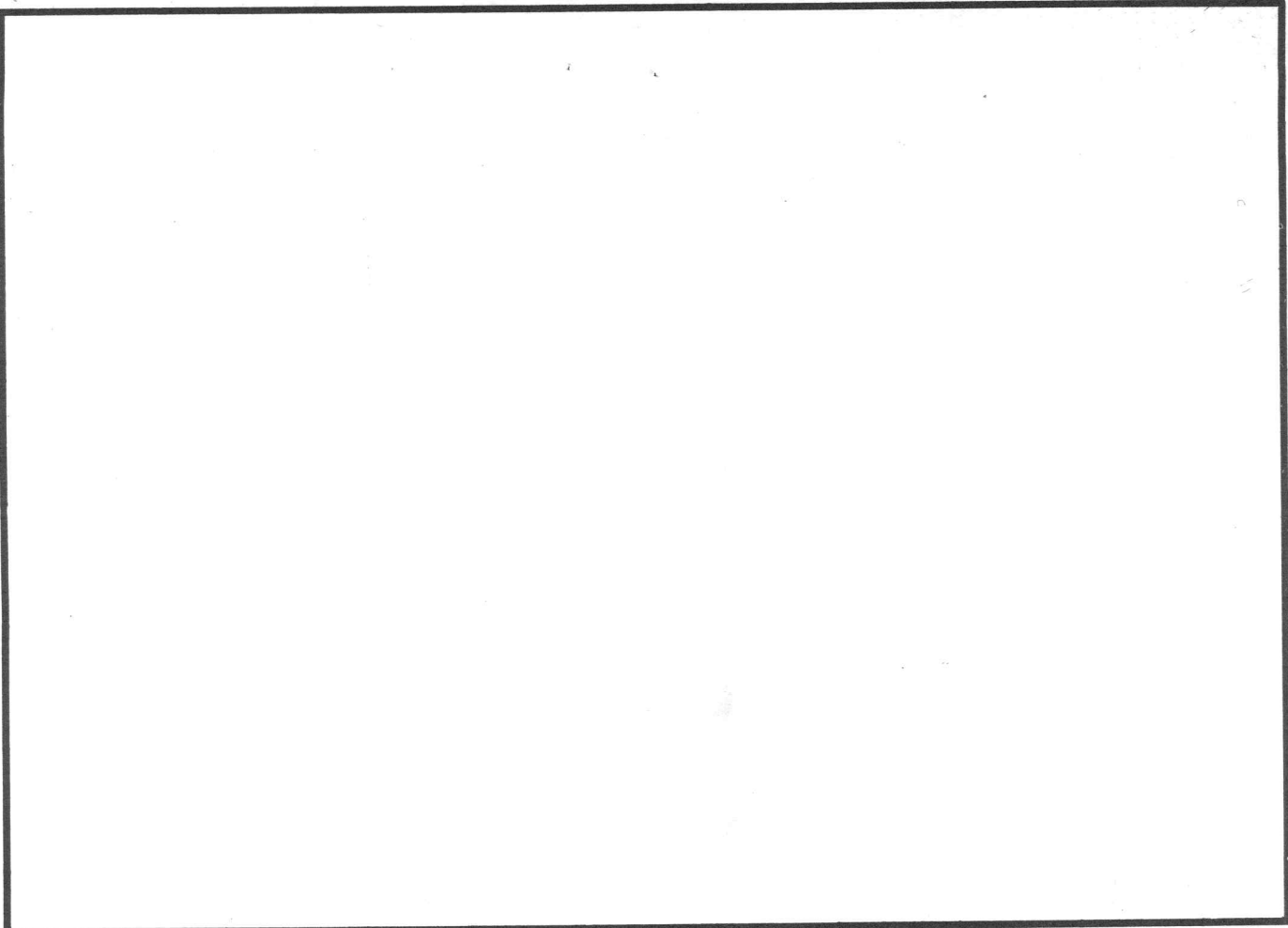
Time (min)	Pressure	Delta P	Horner T
3.00	1016.00	1016.00	19.33
6.00	1033.00	17.00	10.17
9.00	1042.00	9.00	7.11
12.00	1045.00	3.00	5.58
15.00	1048.00	3.00	4.67
18.00	1050.00	2.00	4.06
21.00	1050.00	0.00	3.62
24.00	1052.00	2.00	3.29
27.00	1052.00	0.00	3.04
30.00	1053.00	1.00	2.83
33.00	1053.00	0.00	2.67
36.00	1054.00	1.00	2.53
39.00	1054.00	0.00	2.41
42.00	1054.00	0.00	2.31
45.00	1055.00	1.00	2.22
48.00	1055.00	0.00	2.15
51.00	1055.00	0.00	2.08
54.00	1056.00	1.00	2.02
57.00	1056.00	0.00	1.96
60.00	1056.00	0.00	1.92



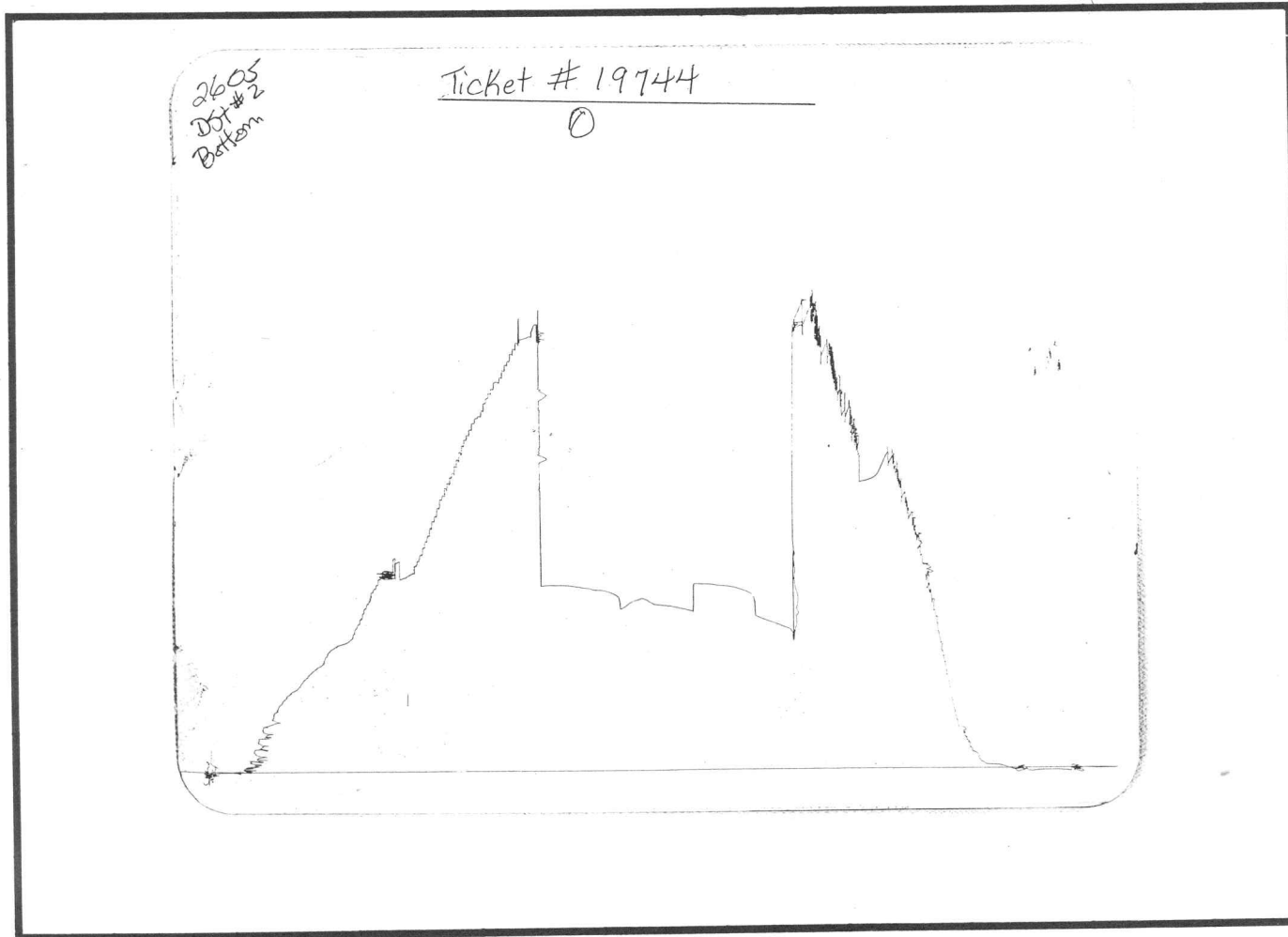
Inside Recorder



Outside Recorder



Inside Recorder



Outside Recorder