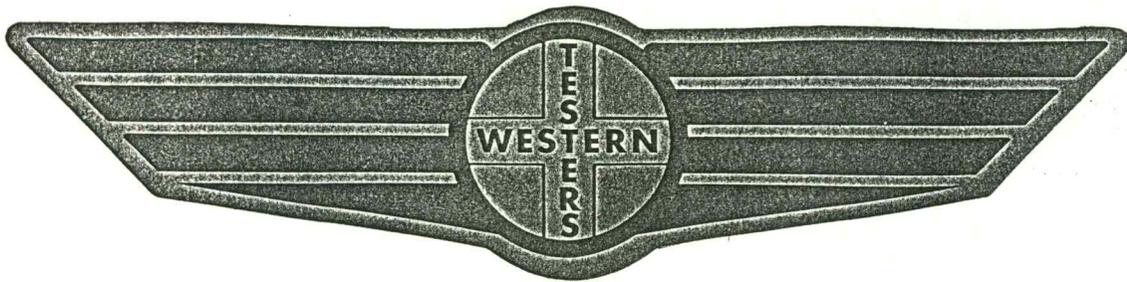


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800 - 688 - 7021

COMPANY RANGE OIL COMPANY, INC.

LEASE & WELL NO. BERRIE B #1

SEC. 5 TWP. 34SRGE. 6E TEST NO.

1 DATE

6/30/92

DST REPORT

GENERAL INFORMATION

DATE : 6/30/92	TICKET : 17854
CUSTOMER : RANGE OIL COMPANY, INC.	LEASE : BERRIE B
WELL : 1 TEST: 1	GEOLOGIST: BLAIR
ELEVATION: 1125 KB	FORMATION: KANSAS CITY
SECTION : 5	TOWNSHIP : 34S
RANGE : 6E COUNTY: COWLEY	STATE : KS
GAUGE SN#: 10979 RANGE : 4100	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2275.00 ft	TO: 2293.00 ft	TVD: 2293.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 2287.0 ft	2290.0 ft	
TEMPERATURE: 108.0		

DRILL COLLAR LENGTH: 360.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 1895.0 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: 2270.0 ft	SIZE:	6.630 in
PACKER DEPTH: 2275.0 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 : 43.00 cp
WEIGHT : 9.400 ppg	WATER LOSS: 15.200 cc
CHLORIDES : 1400 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY STRONG BLOW, BOTTOM OF BUCKET IN 21 MINUTES.
FINAL FLOW PERIOD VERY STRONG BLOW, BOTTOM OF

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BUCKET IN 1 MINUTE, GAS TO SURFACE IN 60 MINUTES.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	DRILLING MUD
180.0	25.0	50.0	0.0	25.0	GASSY OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	39 GRAVITY AT 60 DEGREES
5.0	0.0	0.0	50.0	50.0	MUDDY WATER

RATE INFORMATION

OIL VOLUME:	0.2213 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	2.4850 SCF	AVERAGE OIL RATE:	9.4416 STB/D
MUD VOLUME:	0.3811 STB	AVERAGE WATER RATE:	0.3934 STB/D
WATER VOLUME:	0.0123 STB		
TOTAL FLUID :	0.6147 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1180.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	50.00	50.00
INITIAL SHUT-IN	30.00		765.00
FINAL FLOW	60.00	75.00	85.00
FINAL SHUT-IN	60.00		775.00

FINAL HYDROSTATIC PRESSURE: 1170.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1188.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	53.00	55.00
INITIAL SHUT-IN	30.00		772.00
FINAL FLOW	60.00	85.00	105.00
FINAL SHUT-IN	60.00		782.00

FINAL HYDROSTATIC PRESSURE: 1159.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 6/30/92	TICKET	: 17854
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: BERRIE B
WELL	: 1	TEST:	: 1
ELEVATION:	1125 KB	GEOLOGIST:	BLAIR
SECTION	: 5	FORMATION:	KANSAS CITY
RANGE	: 6E	TOWNSHIP	: 34S
GAUGE SN#:	10979	STATE	: KS
		CLOCK	: 12
		COUNTY:	COWLEY
		RANGE	: 4100

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	53.00	53.00
5.00	53.00	0.00
10.00	53.00	0.00
15.00	53.00	0.00
20.00	53.00	0.00
25.00	54.00	1.00
30.00	55.00	1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	87.00	87.00	11.00
6.00	151.00	64.00	6.00
9.00	255.00	104.00	4.33
12.00	389.00	134.00	3.50
15.00	496.00	107.00	3.00
18.00	601.00	105.00	2.67
21.00	684.00	83.00	2.43
24.00	732.00	48.00	2.25
27.00	757.00	25.00	2.11
30.00	772.00	15.00	2.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	85.00	85.00

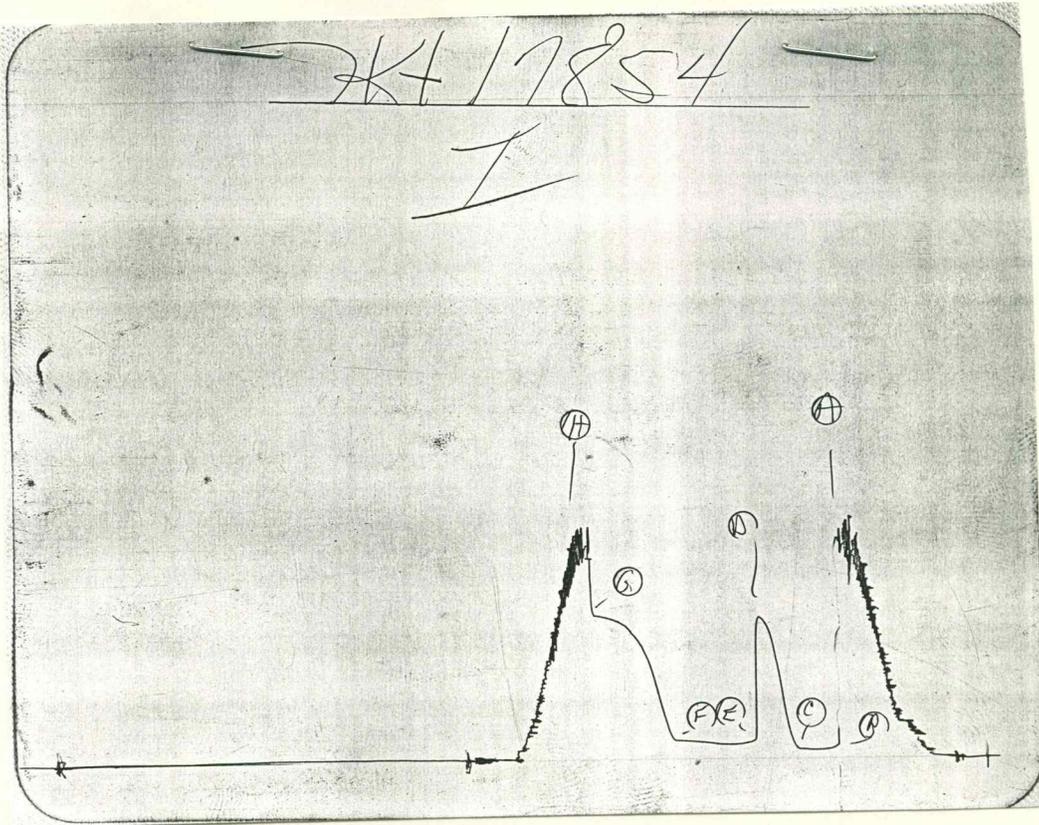
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

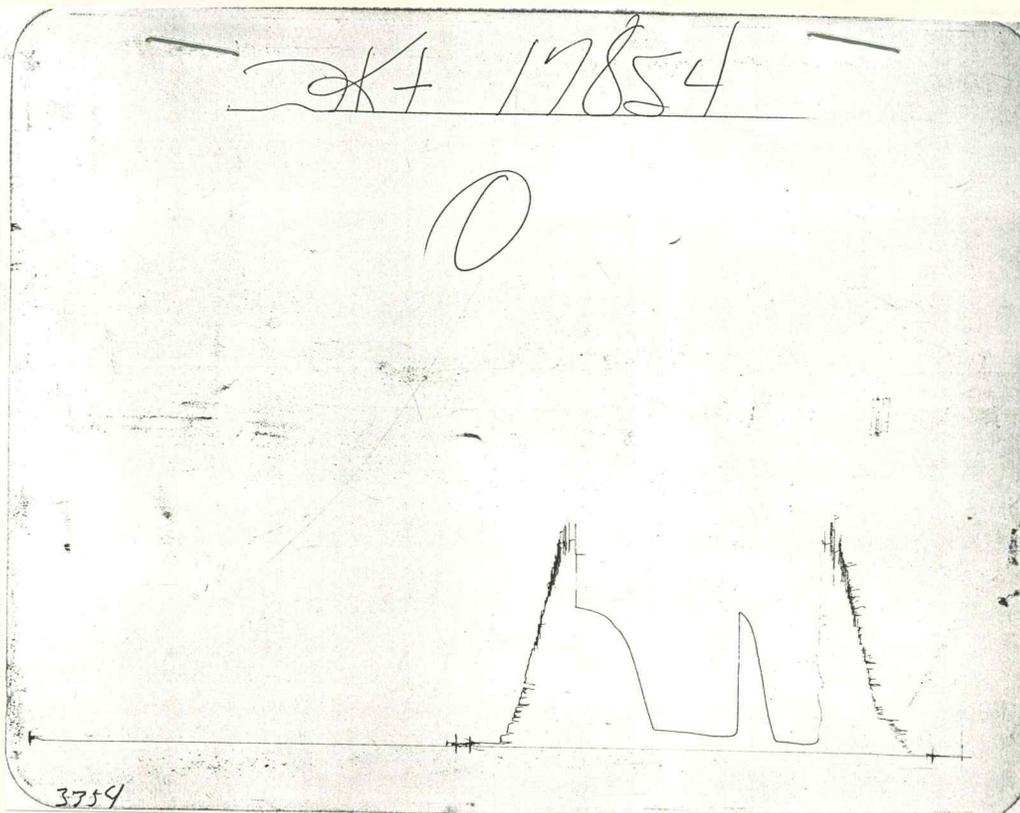
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	85.00	0.00
10.00	85.00	0.00
15.00	85.00	0.00
20.00	85.00	0.00
25.00	85.00	0.00
30.00	86.00	1.00
35.00	90.00	4.00
40.00	94.00	4.00
45.00	98.00	4.00
50.00	101.00	3.00
55.00	103.00	2.00
60.00	105.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	116.00	116.00	16.00
6.00	171.00	55.00	8.50
9.00	240.00	69.00	6.00
12.00	312.00	72.00	4.75
15.00	393.00	81.00	4.00
18.00	469.00	76.00	3.50
21.00	534.00	65.00	3.14
24.00	584.00	50.00	2.88
27.00	627.00	43.00	2.67
30.00	655.00	28.00	2.50
33.00	684.00	29.00	2.36
36.00	711.00	27.00	2.25
39.00	729.00	18.00	2.15
42.00	742.00	13.00	2.07
45.00	753.00	11.00	2.00
48.00	762.00	9.00	1.94
51.00	769.00	7.00	1.88
54.00	774.00	5.00	1.83
57.00	779.00	5.00	1.79
60.00	782.00	3.00	1.75

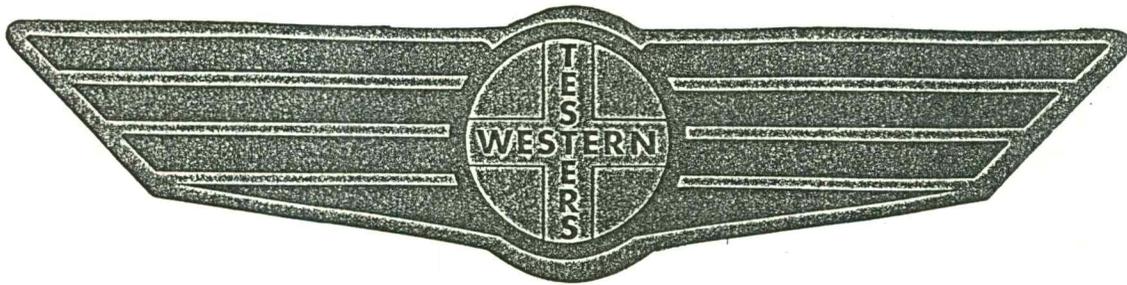


Inside Recorder



Outside Recorder

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. BERRIE B #1 SEC. 5 TWP. 34S RGE. 6E TEST NO. 2 DATE 7/2/92

DST REPORT

GENERAL INFORMATION

DATE : 7/2/92	TICKET : 17855
CUSTOMER : RANGE OIL COMPANY, INC.	LEASE : BERRIE B
WELL : 1 TEST: 2	GEOLOGIST: TOM BLAIR
ELEVATION: 1125 KB	FORMATION: MISSISSIPPI
SECTION : 5	TOWNSHIP : 34S
RANGE : 6E COUNTY: COWLEY	STATE : KS
GAUGE SN#: 10979 RANGE : 4100	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2914.00 ft	TO: 2935.00 ft	TVD: 2935.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 2927.0 ft	2931.0 ft	
TEMPERATURE: 118.0		
DRILL COLLAR LENGTH: 360.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 2534.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 21.0 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: 2909.0 ft	SIZE:	6.630 in
PACKER DEPTH: 2914.0 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. : GLAVE RIG 1	VISCOSITY : 49.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 12.800 cc
WEIGHT : 9.400 ppg	
CHLORIDES : 1700 ppm	SERIAL NUMBER:
JARS-MAKE :	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW, TOP OF BUCKET.
 FINAL FLOW PERIOD VERY WEAK BLOW, DIED IN 29
 MINUTES, TOP OF BUCKET.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
40.0	0.0	0.0	0.0	100.0	DRILLING MUD W/OIL SPOTS

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	4.7208	STB/D
MUD VOLUME:	0.1967	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1967	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1490.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	30.00	30.00
INITIAL SHUT-IN	30.00		50.00
FINAL FLOW	30.00	30.00	30.00
FINAL SHUT-IN	30.00		50.00

FINAL HYDROSTATIC PRESSURE: 1480.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1492.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	39.00	39.00
INITIAL SHUT-IN	30.00		60.00
FINAL FLOW	30.00	36.00	36.00
FINAL SHUT-IN	30.00		51.00

FINAL HYDROSTATIC PRESSURE: 1492.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 7/2/92	TICKET	: 17855
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: BERRIE B
WELL	: 1	TEST:	2
ELEVATION:	1125 KB	GEOLOGIST:	TOM BLAIR
SECTION	: 5	FORMATION:	MISSISSIPPI
RANGE	: 6E	TOWNSHIP	: 34S
GAUGE SN#:	10979	STATE	: KS
		CLOCK	: 12
		COUNTY:	COWLEY
		RANGE	: 4100

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	39.00	39.00
5.00	39.00	0.00
10.00	39.00	0.00
15.00	39.00	0.00
20.00	39.00	0.00
25.00	39.00	0.00
30.00	39.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	40.00	40.00	0.00
6.00	41.00	1.00	0.00
9.00	43.00	2.00	0.00
12.00	45.00	2.00	0.00
15.00	47.00	2.00	0.00
18.00	50.00	3.00	0.00
21.00	53.00	3.00	0.00
24.00	56.00	3.00	0.00
27.00	58.00	2.00	0.00
30.00	60.00	2.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	36.00	36.00

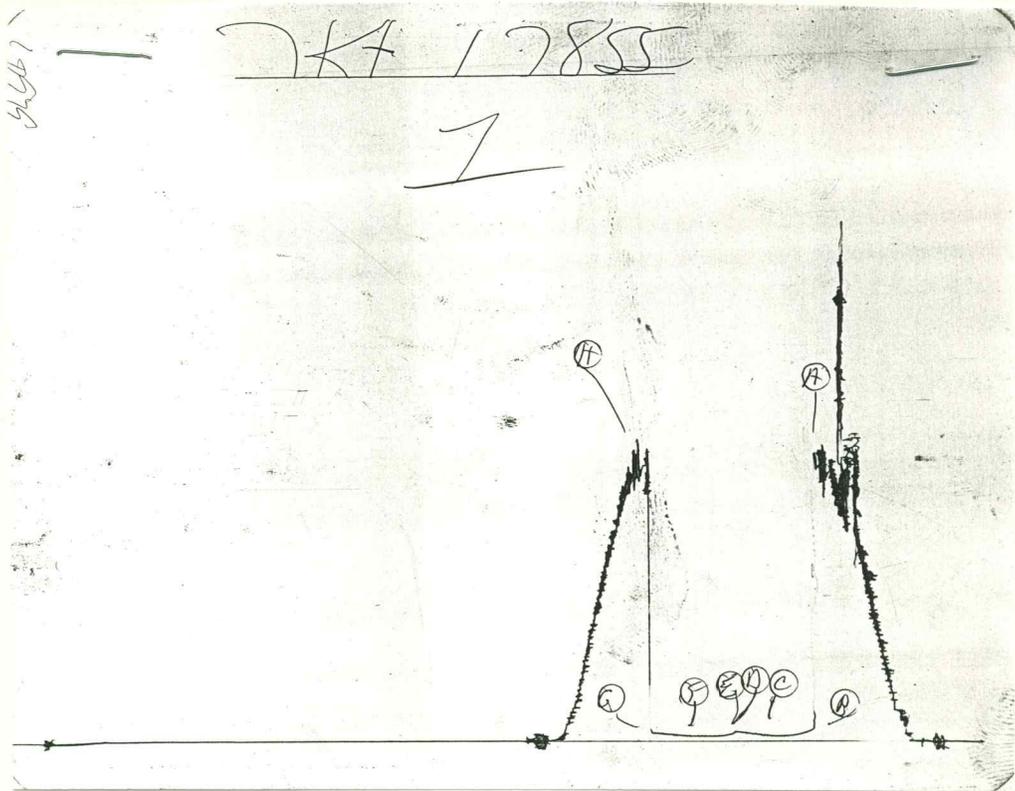
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

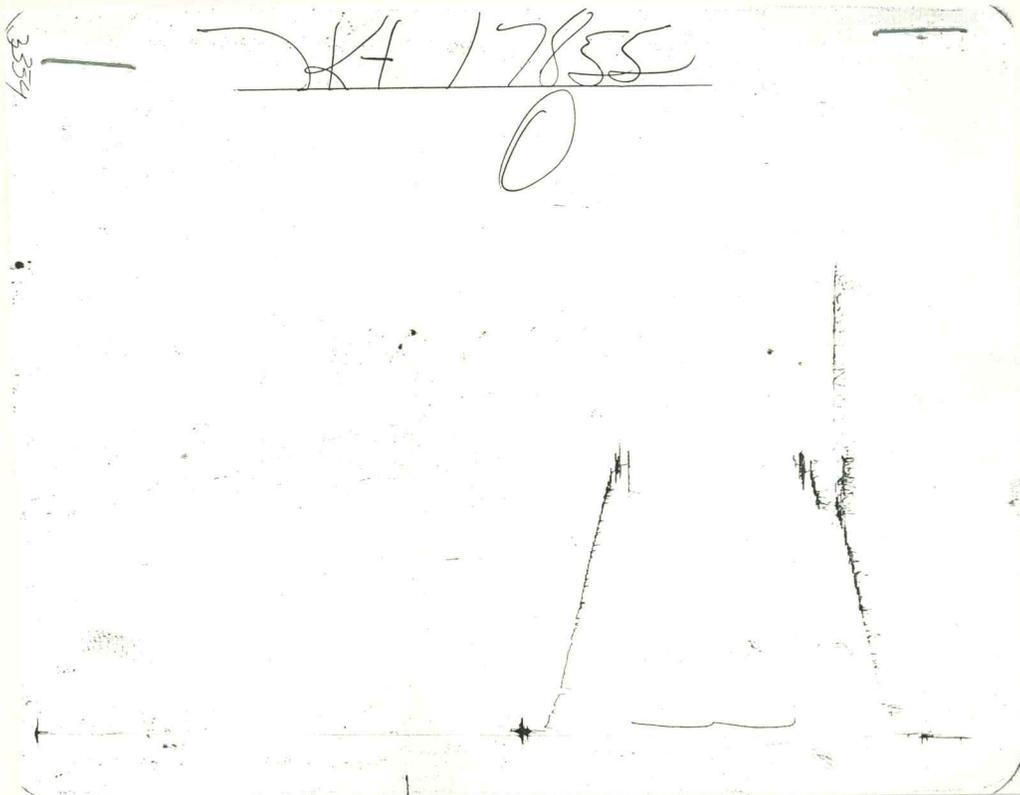
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	36.00	0.00
10.00	36.00	0.00
15.00	36.00	0.00
20.00	36.00	0.00
25.00	36.00	0.00
30.00	36.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	37.00	37.00	0.00
6.00	39.00	2.00	0.00
9.00	41.00	2.00	0.00
12.00	43.00	2.00	0.00
15.00	45.00	2.00	0.00
18.00	47.00	2.00	0.00
21.00	48.00	1.00	0.00
24.00	49.00	1.00	0.00
27.00	50.00	1.00	0.00
30.00	51.00	1.00	0.00



Inside Recorder



Outside Recorder