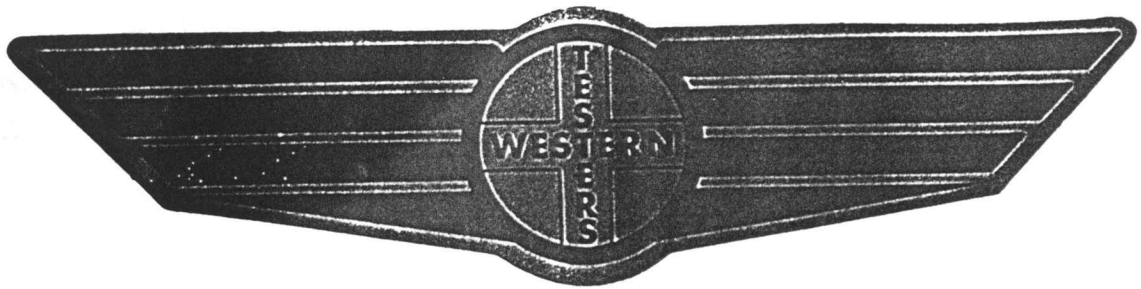


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NATIONAL PETROLEUM RESERVE LEASE & WELL NO. # 1 PEARL STRATMANN SEC. 24 TWP. 17S RGE. 10W TEST NO. 1 DATE 10/13/86

WESTERN TESTING CO INC.  
WICHITA KANSAS

Pressure Transient Report  
-----

COMPANY : NATIONAL PETROLEUM RESREVES INC  
RIG : ELLSWORTH-KANSAS  
FIELD : PEARL STRATMANN  
WELL : #1  
DATE : 10-13-86  
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECOVERED 120 FEET OF GAS ABOVE FLIUD.

COMPANY : NATIONAL PETROLEUM RESREVES INC

WELL : #1  
 GAUGE # : 10270  
 DATE : 13/10/86

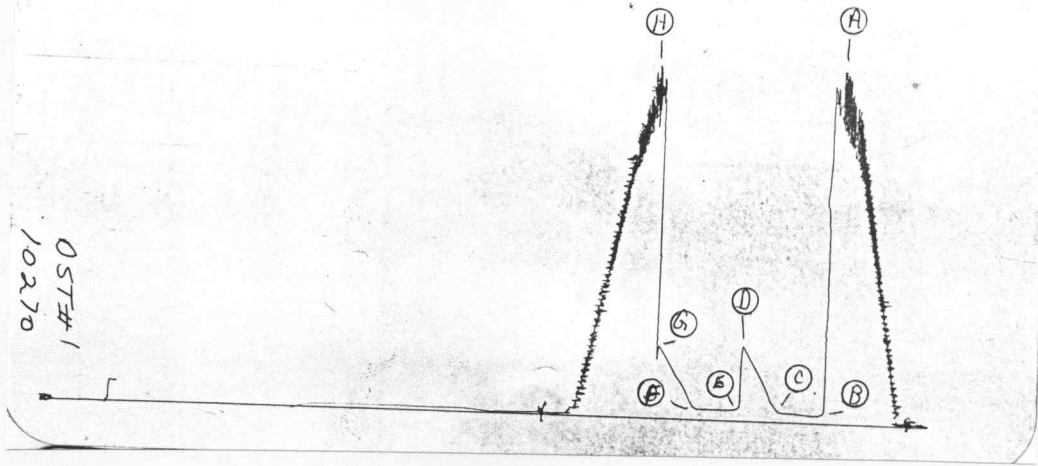
FIELD : PEARL STRATMANN  
 JOB # : 11639  
 DEPTH : 3228  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG-F	DELTA P Pi-P(i-1)
1	5: 0: 0	0.000	42.000	37.78	0.000
2	5: 5: 0	0.083	42.000	37.78	0.000
3	5:10: 0	0.167	42.000	37.78	0.000
4	5:15: 0	0.250	43.000	37.78	1.000
5	5:20: 0	0.333	46.000	37.78	3.000
6	5:25: 0	0.417	48.000	37.78	2.000
7	5:30: 0	0.500	50.000	37.78	2.000
8	5:33: 0	0.550	52.000	37.73	2.000
9	5:36: 0	0.600	72.000	37.78	20.000
10	5:39: 0	0.650	100.000	37.78	28.000
11	5:42: 0	0.700	152.000	37.78	52.000
12	5:45: 0	0.750	200.000	37.78	48.000
13	5:48: 0	0.800	237.000	37.78	37.000
14	5:51: 0	0.850	275.000	37.78	38.000
15	5:54: 0	0.900	310.000	37.78	35.000
16	5:57: 0	0.950	347.000	37.78	37.000
17	6: 0: 0	1.000	400.000	37.78	53.000
18	6: 1: 0	1.017	59.000	37.78	-341.000
19	6: 5: 0	1.083	59.000	37.78	0.000
20	6:10: 0	1.167	59.000	37.78	0.000
21	6:15: 0	1.250	59.000	37.78	0.000
22	6:20: 0	1.333	59.000	37.78	0.000
23	6:25: 0	1.417	59.000	37.78	0.000
24	6:30: 0	1.500	59.000	37.78	0.000
25	6:33: 0	1.550	60.000	37.78	1.000
26	6:36: 0	1.600	89.000	37.78	29.000
27	6:39: 0	1.650	137.000	37.78	48.000
28	6:42: 0	1.700	177.000	37.78	40.000
29	6:45: 0	1.750	208.000	37.78	31.000
30	6:48: 0	1.800	235.000	37.78	27.000
31	6:51: 0	1.850	272.000	37.78	37.000
32	6:54: 0	1.900	308.000	37.78	36.000
33	6:57: 0	1.950	345.000	37.78	37.000
34	7: 0: 0	2.000	387.000	37.78	42.000

WESTERN TESTING CO INC.

TK# 11639  
I

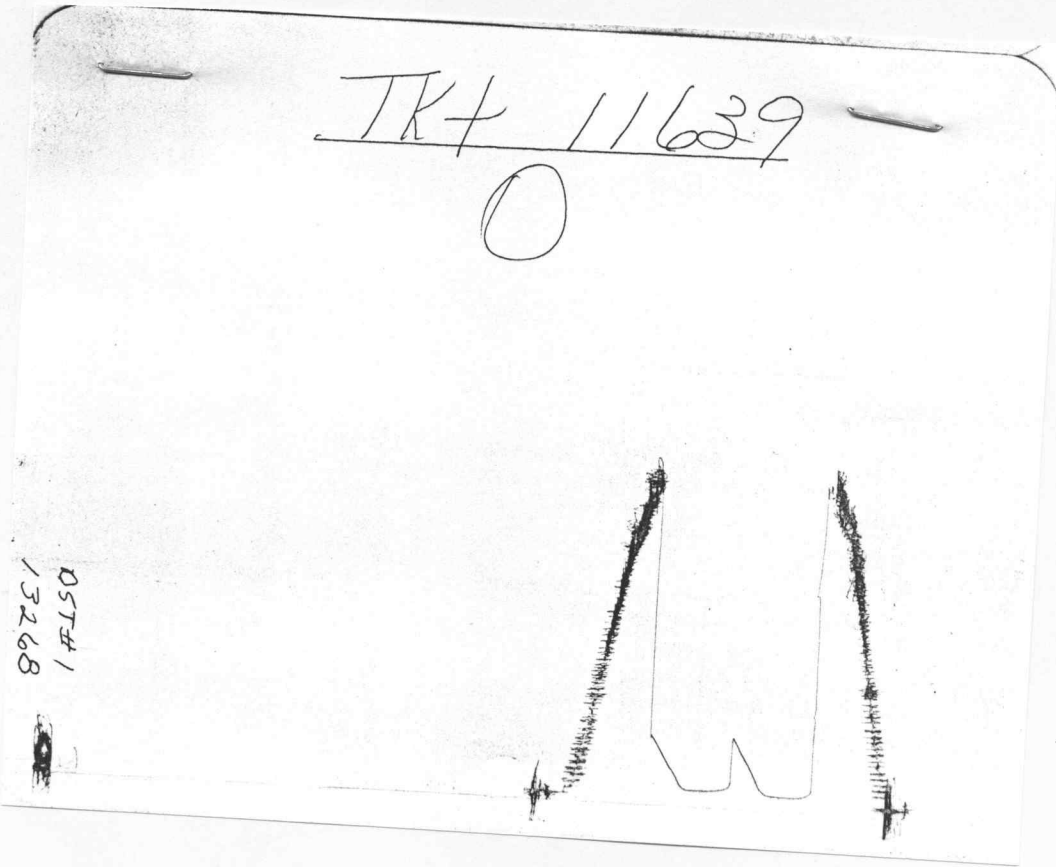
OST# 1  
10270



Inside Recorder

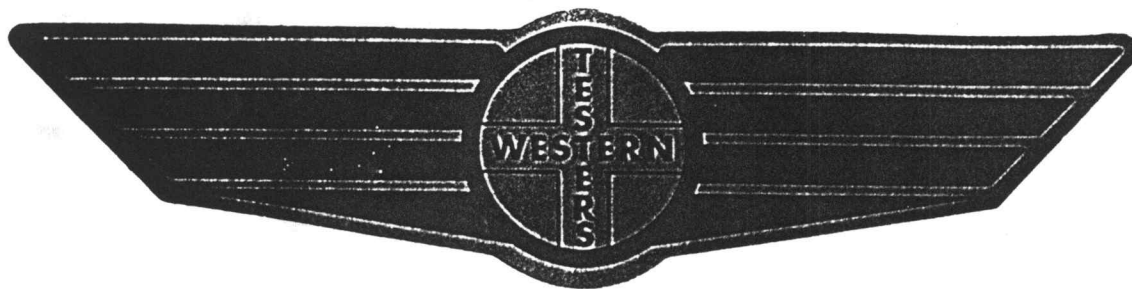
TK# 11639  
O

OST# 1  
13268



Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NATIONAL PETROLEUM RESERVE LEASE INC. WELL NO. #1 PEARL STRATMANN SEC. 24 TWP. 17S RGE. 10W TEST NO. 2 DATE 10/13/86

WESTERN TESTING CO INC.  
WICHITA KANSAS

Pressure Transient Report  
-----

COMPANY : NATIONAL PETROLEUM RESERVES INC  
RIG : ELLSWORTH-KANSAS  
FIELD : PEARL STRATMANN  
WELL : #1  
DATE : 10-13-86  
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECOVERED 60 FEET OF GAS ABOVE FLUID.

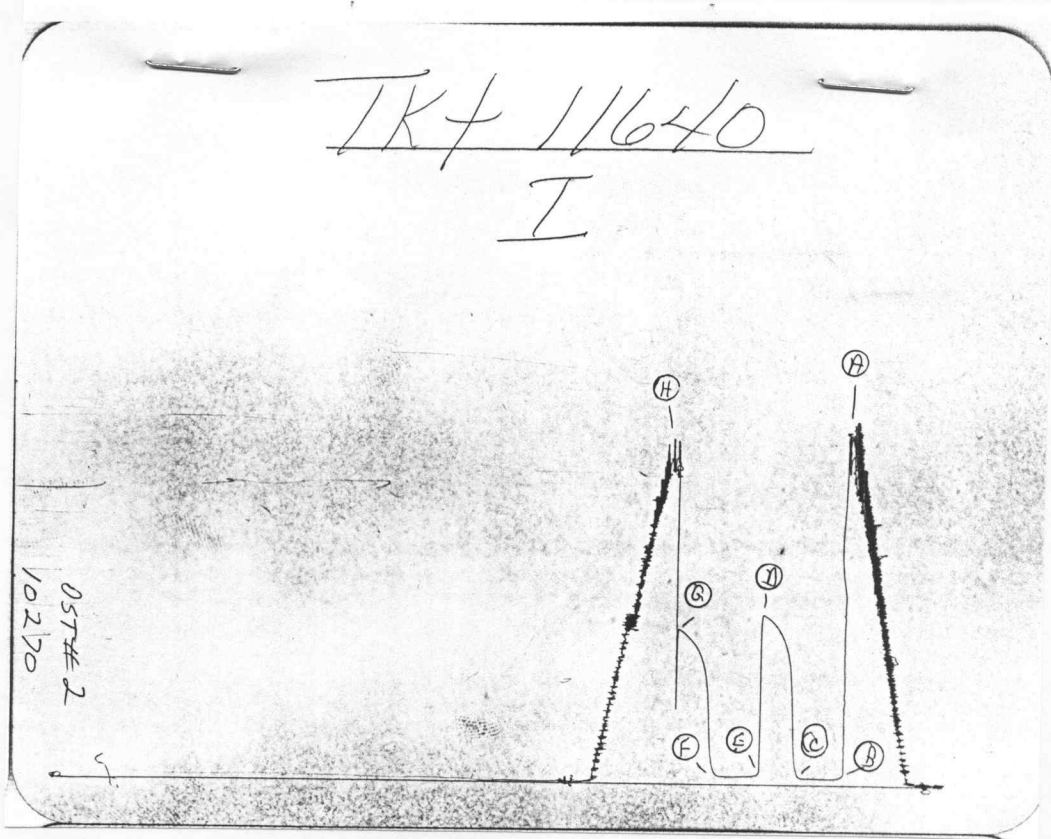
COMPANY : NATIONAL PETROLEUM RESERVES INC

WELL : #1  
GAUGE # : 10270  
DATE : 13/10/86

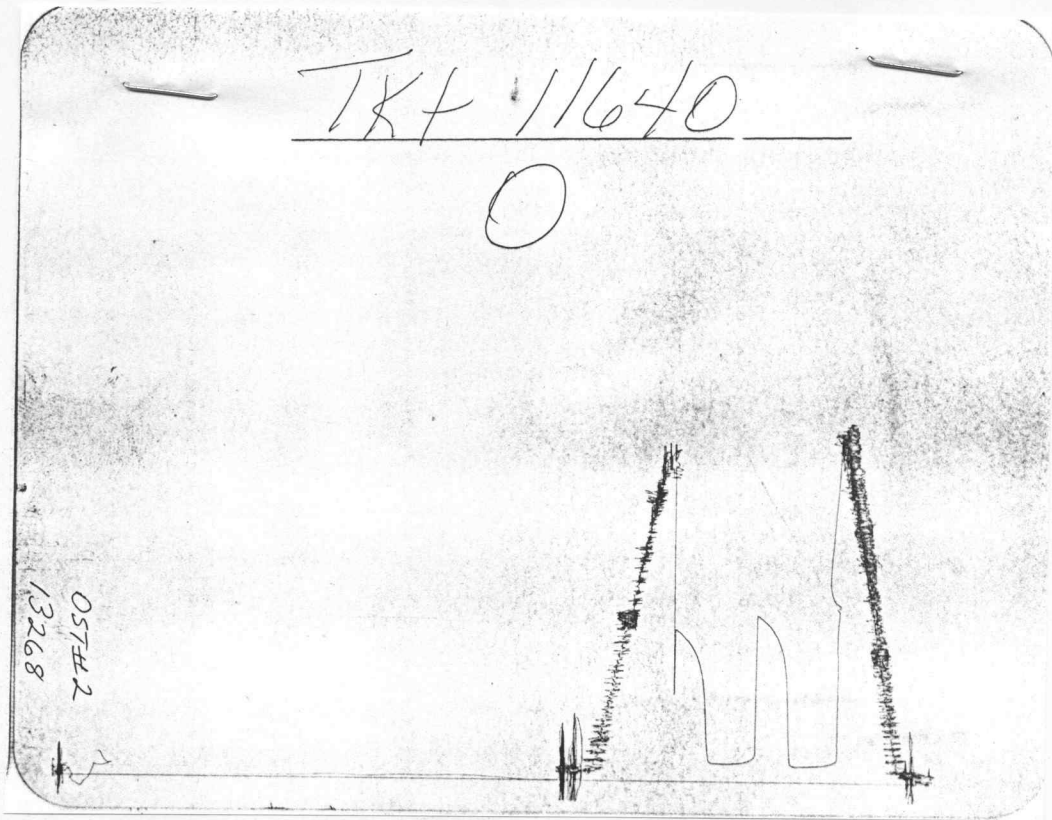
FIELD : PEARL STRATMANN  
JOB # : 11640  
DEPTH : 3242  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:55:0	0.000	36.000	42.22	0.000
2	2:0:0	0.083	36.000	42.22	0.000
3	3:5:0	0.167	36.000	42.22	0.000
4	3:10:0	0.250	36.000	42.22	0.000
5	3:15:0	0.333	36.000	42.22	0.000
6	3:20:0	0.417	36.000	42.22	0.000
7	3:25:0	0.500	36.000	42.22	0.000
8	3:28:0	0.550	43.000	42.22	7.000
9	3:31:0	0.600	114.000	42.22	71.000
10	3:34:0	0.650	612.000	42.22	498.000
11	3:37:0	0.700	736.000	42.22	124.000
12	3:40:0	0.750	790.000	42.22	54.000
13	3:43:0	0.800	825.000	42.22	35.000
14	3:46:0	0.850	858.000	42.22	33.000
15	3:49:0	0.900	881.000	42.22	23.000
16	3:52:0	0.950	900.000	42.22	19.000
17	3:55:0	1.000	912.000	42.22	12.000
18	3:56:0	1.017	43.000	42.22	-869.000
19	4:0:0	1.083	43.000	42.22	0.000
20	5:5:0	1.167	43.000	42.22	0.000
21	5:10:0	1.250	43.000	42.22	0.000
22	5:15:0	1.333	43.000	42.22	0.000
23	5:20:0	1.417	43.000	42.22	0.000
24	5:25:0	1.500	43.000	42.22	0.000
25	5:28:0	1.550	70.000	42.22	27.000
26	5:31:0	1.600	216.000	42.22	146.000
27	5:34:0	1.650	522.000	42.22	306.000
28	5:37:0	1.700	643.000	42.22	121.000
29	5:40:0	1.750	703.000	42.22	60.000
30	5:43:0	1.800	740.000	42.22	37.000
31	5:46:0	1.850	769.000	42.22	29.000
32	5:49:0	1.900	792.000	42.22	23.000
33	5:52:0	1.950	811.000	42.22	19.000
34	5:55:0	2.000	831.000	42.22	20.000

WESTERN TESTING CO INC.



Inside Recorder

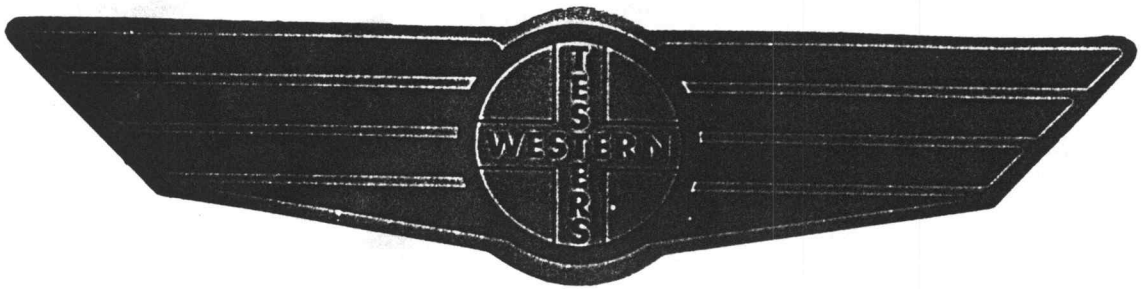


Outside Recorder

# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY NATIONAL PETROLEUM RESERVES, INC. LEASE & WELL NO. #1 PEARL STRATMANN SEC. 24 TWP. 17S RGE. 10W TEST NO. 4 DATE 10/14/86

WESTERN TESTING CO INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-14-86 TICKET : 11642  
CUSTOMER : NATIONAL PETROLEUM RESERVES INC LEASE : PEARL STRATMANN  
WELL : #1 TEST: 4 GEOLOGIST : H. CRENSHAW  
ELEVATION : 1762 FORMATION : ARBUCKLE  
SECTION : 24 TOWNSHIP : 17S  
RANGE : 10W COUNTY : ELLSWORTH STATE : KANSAS  
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3190 TO : 3250 TOTAL DEPTH : 3250  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3185 SIZE : 6.63  
PACKER DEPTH : 3190 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : DUKE DRILLING RIG #1  
MUD TYPE : STARCH VISCOSITY : 48  
WEIGHT : 10.1 WATER LOSS (CC) : 15.4  
CHLORIDES (PPM) : 59000  
JARS-MAKE : -- SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 940 FT I.D. inch : 2.70  
DRILL PIPE LENGTH : 2230 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 60 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK 1/2" BLOW BUILDING TO A GOOD 6" BLOW.  
BLOW COMMENT #2 : FINAL FLOW-FAIR 4" BLOW THROUGHTOUT.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 80 FT OF: MUDDY GASSY OIL  
RECOVERED : 0 FT OF: 50% OIL-10% GAS-40% MUD  
RECOVERED : 60 FT OF: OIL & GAS CUT MUD  
RECOVERED : 0 FT OF: 10% OIL-14% GAS-76% MUD

Total Barrels Fluid = 0.99  
Total Fluid Prod Rate = 23.79 BFPD  
Indicated Oil Rate = 7.82 BOPD  
Indicated Wtr Rate = 11.86 BWPD  
Corrected Oil Rate = 12.10 BOPD  
Corrected Wtr Rate = 18.35 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 : RECOVERED 60 FEET OF GAS ABOVE FLUID.  
REMARK 4 :

SET PACKER(S) : 1:50 AM TIME STARTED OFF BOTTOM : 3:50 AM  
WELL TEMPERATURE : 110  
INITIAL HYDROSTATIC PRESSURE (A) 1765  
INITIAL FLOW PERIOD MIN: 30 (B) 60 PSI TO (C) : 68  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 873  
FINAL FLOW PERIOD MIN: 30 (E) 83 PSI TO (F) : 87  
FINAL CLOSED IN PERIOD MIN: 30 (G) 842  
FINAL HYDROSTATIC PRESSURE (H) 1744

WESTERN TESTING CO INC.  
WICHITA KANSAS

Pressure Transient Report  
-----

COMPANY : NATIONAL PETROLEUM RESERVES INC  
RIG : ELLSWORTH-KANSAS  
FIELD : PEARL STRATMANN  
WELL : #1  
DATE : 10-14-86  
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECOVERED 60 FEET OF GAS ABOVE FLUID.

COMPANY : NATIONAL PETROLEUM RESERVES INC

FIELD : PEARL STRATMANN

WELL : #1

JOB # : 11642

GAUGE # : 10270

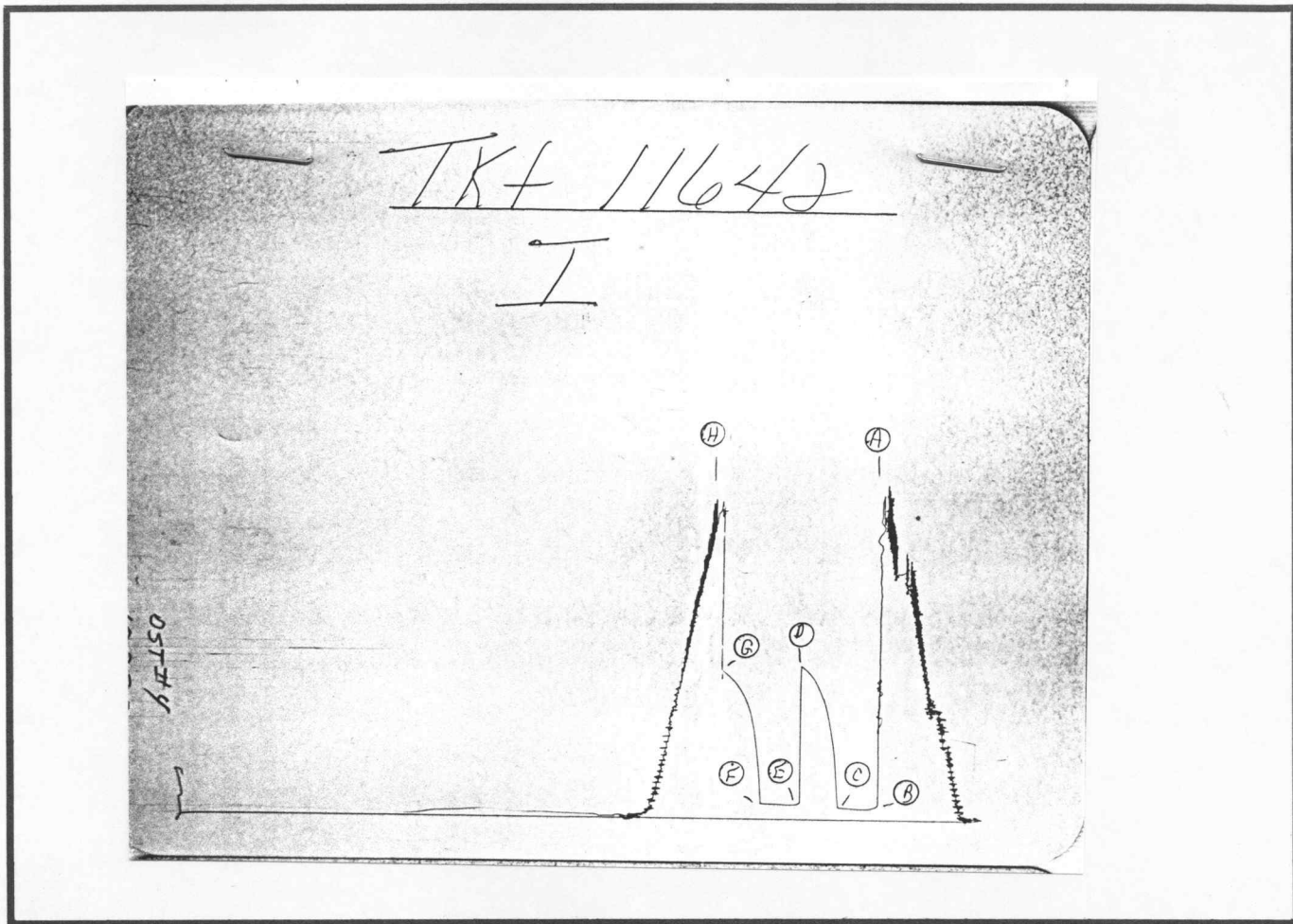
DEPTH : 3250

DATE : 14/10/86

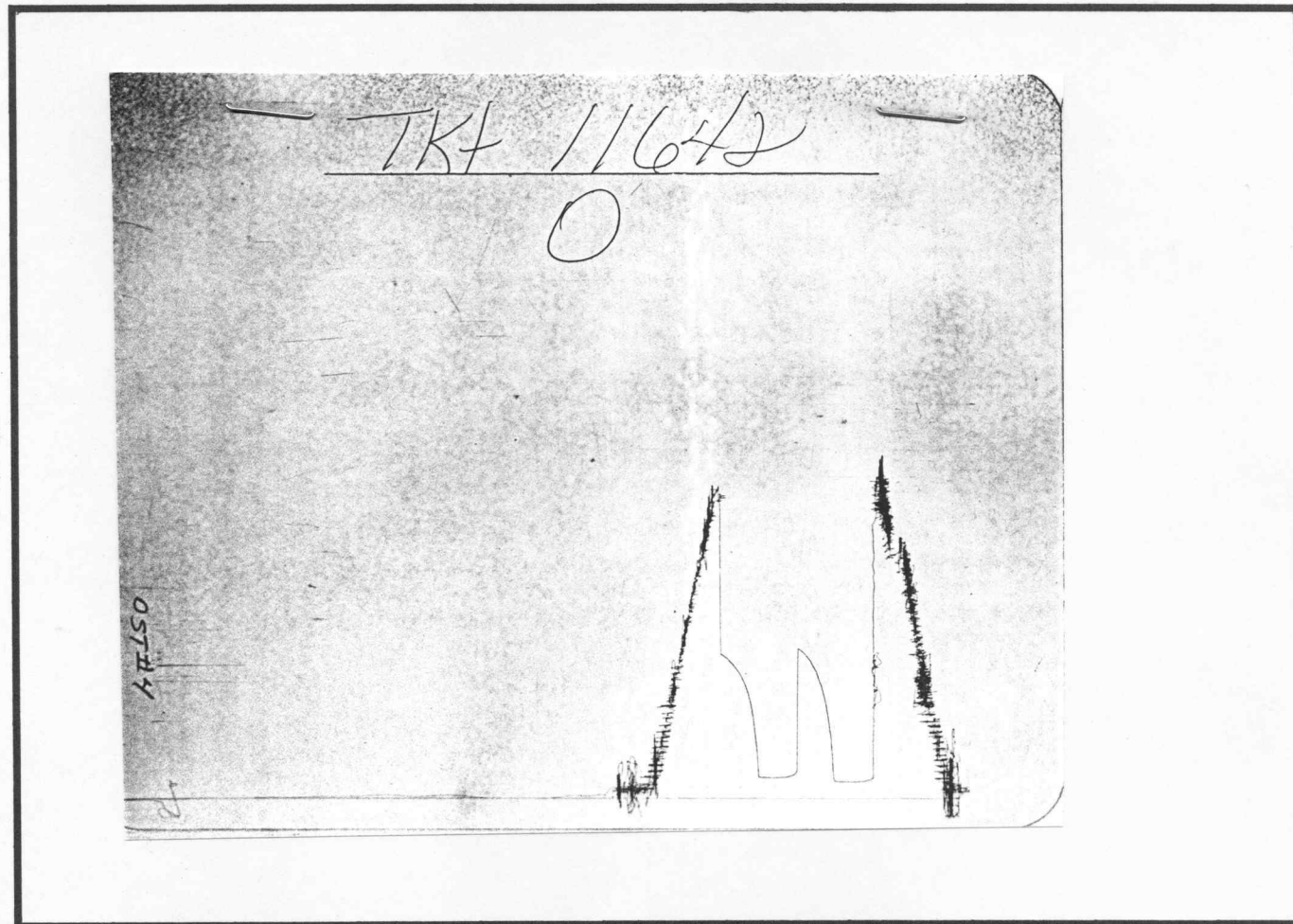
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:50:0	0.000	60.000	43.33	0.000
2	1:55:0	0.083	60.000	43.33	0.000
3	2:0:0	0.167	60.000	43.33	0.000
4	2:5:0	0.250	60.000	43.33	0.000
5	2:10:0	0.333	62.000	43.33	2.000
6	2:15:0	0.417	65.000	43.33	3.000
7	2:20:0	0.500	68.000	43.33	3.000
8	2:23:0	0.550	306.000	43.33	238.000
9	2:26:0	0.600	460.000	43.33	154.000
10	2:29:0	0.650	589.000	43.33	129.000
11	2:32:0	0.700	674.000	43.33	85.000
12	2:35:0	0.750	721.000	43.33	47.000
13	2:38:0	0.800	770.000	43.33	49.000
14	2:41:0	0.850	808.000	43.33	38.000
15	2:44:0	0.900	834.000	43.33	26.000
16	2:47:0	0.950	856.000	43.33	22.000
17	2:50:0	1.000	873.000	43.33	17.000
18	2:51:0	1.017	83.000	43.33	-790.000
19	2:55:0	1.083	83.000	43.33	0.000
20	3:0:0	1.167	83.000	43.33	0.000
21	3:5:0	1.250	83.000	43.33	0.000
22	3:10:0	1.333	84.000	43.33	1.000
23	3:15:0	1.417	86.000	43.33	2.000
24	3:20:0	1.500	87.000	43.33	1.000
25	3:23:0	1.550	354.000	43.33	267.000
26	3:26:0	1.600	510.000	43.33	156.000
27	3:29:0	1.650	603.000	43.33	93.000
28	3:32:0	1.700	668.000	43.33	65.000
29	3:35:0	1.750	715.000	43.33	47.000
30	3:38:0	1.800	748.000	43.33	33.000
31	3:41:0	1.850	775.000	43.33	27.000
32	3:44:0	1.900	798.000	43.33	23.000
33	3:47:0	1.950	820.000	43.33	22.000
34	3:50:0	2.000	842.000	43.33	22.000

WESTERN TESTING CO INC.



Inside Recorder



Outside Recorder