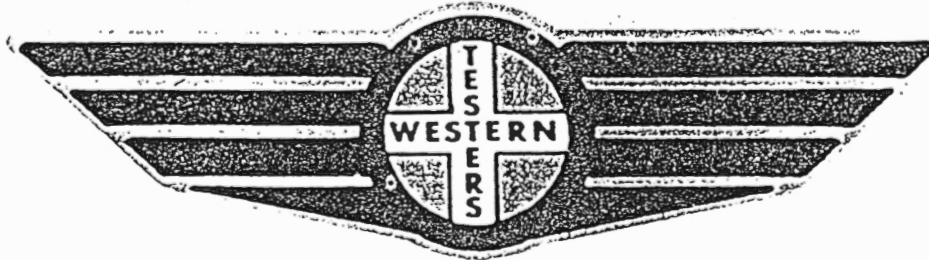


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

JAY BOY OIL, INC.

LEASE & WELL NO.

DIRKS #1-B

SEC. 14 TWP. 20S RGE. 16W TEST NO.

4 DATE 1/25/91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1-25-91 TICKET : 16818  
CUSTOMER : JAY BOY OIL INC. LEASE : DIRKS  
WELL : 1-B TEST: 4 GEOLOGIST : K. GREENWOOD  
ELEVATION : 2043 KB FORMATION : ARBUCKLE  
SECTION : 14 TOWNSHIP : 20S  
RANGE : 16W COUNTY : PAWNEE STATE : KANSAS  
GAUGE SN# : 1051 RANGE : 4250 CLOCK : 12

INTERVAL FROM : 3749 TO : 3765 TOTAL DEPTH : 3765  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3744 SIZE : 6.63  
PACKER DEPTH : 3749 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRILLING RIG 3  
MUD TYPE : CHEMICAL VISCOSITY : 53  
WEIGHT : 9.2 WATER LOSS (CC) : 12.8  
CHLORIDES (PPM) : 16000  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3729 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 16 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD STRONG BLOW. GAS TO  
BLOW COMMENT #2 : SURFACE IN 2 MINUTES. SEE FLOW CHART.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 40 FT OF: SLY OIL CUT MUD  
RECOVERED : 0 FT OF: 5%OIL;85%MUD;10%GAS

Total Barrels Fluid = 0.56  
Total Fluid Prod Rate = 13.47 BFPD  
Indicated Oil Rate = 0.67 BOPD  
Indicated Wtr Rate = 1.14 BWPD  
Corrected Oil Rate = 183.26 BOPD  
Corrected Wtr Rate = 311.54 BWPD

REMARK 1 : TIGHT HOLE  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 2:25 P.M. TIME STARTED OFF BOTTOM : 5:25 P.M.  
WELL TEMPERATURE : 104  
INITIAL HYDROSTATIC PRESSURE (A) 1950  
INITIAL FLOW PERIOD MIN: 30 (B) 375 PSI TO (C) : 184  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 904  
FINAL FLOW PERIOD MIN: 30 (E) 343 PSI TO (F) : 171  
FINAL CLOSED IN PERIOD MIN: 66 (G) 872  
FINAL HYDROSTATIC PRESSURE (H) 1853

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : JAY BOY OIL INC.  
RIG : PAWNEE-KANSAS  
FIELD : DIRKS  
WELL : 1-B  
DATE : 1-25-91  
GAUGE NO : 1051

OPERATIONAL COMMENTS

TIGHT HOLE

COMPANY : JAY BOY OIL INC.  
WELL : 1-B  
GAUGE # : 1051  
DATE : 25/ 1/91

FIELD : DIRKS  
JOB # : 16818  
DEPTH : 3765  
TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	2:25: 0	0.000	375.000	104.00	0.000
3	2:29:59	0.083	282.000	104.00	-93.000
4	2:35: 0	0.167	242.000	104.00	-40.000
5	2:40: 0	0.250	217.000	104.00	-25.000
6	2:44:59	0.333	196.000	104.00	-21.000
7	2:50: 0	0.417	185.000	104.00	-11.000
8	2:55: 0	0.500	184.000	104.00	-1.000
INITIAL SHUT-IN PERIOD					
9	2:58: 0	0.550	465.000	104.00	281.000
10	3: 1: 0	0.600	545.000	104.00	80.000
11	3: 4: 0	0.650	609.000	104.00	64.000
12	3: 7: 0	0.700	655.000	104.00	46.000
13	3:10: 0	0.750	697.000	104.00	42.000
14	3:13: 0	0.800	724.000	104.00	27.000
15	3:16: 0	0.850	751.000	104.00	27.000
16	3:19: 0	0.900	775.000	104.00	24.000
17	3:22: 0	0.950	793.000	104.00	18.000
18	3:25: 0	1.000	809.000	104.00	16.000
19	3:28: 0	1.050	825.000	104.00	16.000
20	3:31: 0	1.100	834.000	104.00	9.000
21	3:34: 0	1.150	847.000	104.00	13.000
22	3:37: 0	1.200	855.000	104.00	8.000
23	3:40: 0	1.250	864.000	104.00	9.000
24	3:43: 0	1.300	872.000	104.00	8.000
25	3:46: 0	1.350	879.000	104.00	7.000
26	3:49: 0	1.400	886.000	104.00	7.000
27	3:52: 0	1.450	893.000	104.00	7.000
28	3:55: 0	1.500	904.000	104.00	11.000
FINAL FLOW PERIOD					
29	3:56: 0	1.517	343.000	104.00	-561.000
30	3:59:59	1.583	272.000	104.00	-71.000
31	4: 5: 0	1.667	234.000	104.00	-38.000
32	4:10: 0	1.750	210.000	104.00	-24.000
33	4:14:59	1.833	193.000	104.00	-17.000
34	4:20: 0	1.917	177.000	104.00	-16.000
35	4:25: 0	2.000	171.000	104.00	-6.000
FINAL SHUT-IN PERIOD					
36	4:28: 0	2.050	474.000	104.00	303.000
37	4:31: 0	2.100	550.000	104.00	76.000
38	4:34: 0	2.150	597.000	104.00	47.000
39	4:37: 0	2.200	629.000	104.00	32.000
40	4:40: 0	2.250	658.000	104.00	29.000
41	4:43: 0	2.300	685.000	104.00	27.000
42	4:46: 0	2.350	705.000	104.00	20.000
43	4:49: 0	2.400	725.000	104.00	20.000
44	4:52: 0	2.450	743.000	104.00	18.000
45	4:55: 0	2.500	759.000	104.00	16.000
46	4:58: 0	2.550	773.000	104.00	14.000
47	5: 1: 0	2.600	787.000	104.00	14.000
48	5: 4: 0	2.650	800.000	104.00	13.000

COMPANY : JAY BOY OIL INC.  
WELL : 1-B  
GAUGE # : 1051  
DATE : 25/ 1/91

FIELD : DIRKS  
JOB # : 16818  
DEPTH : 3765  
TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	5: 7: 0	2.700	813.000	104.00	13.000
50	5:10: 0	2.750	822.000	104.00	9.000
51	5:13: 0	2.800	833.000	104.00	11.000
52	5:16: 0	2.850	840.000	104.00	7.000
53	5:19: 0	2.900	850.000	104.00	10.000
54	5:22: 0	2.950	856.000	104.00	6.000
55	5:25: 0	3.000	862.000	104.00	6.000
56	5:28: 0	3.050	870.000	104.00	8.000
57	5:31: 0	3.100	872.000	104.00	2.000

WESTERN TESTING CO. INC.

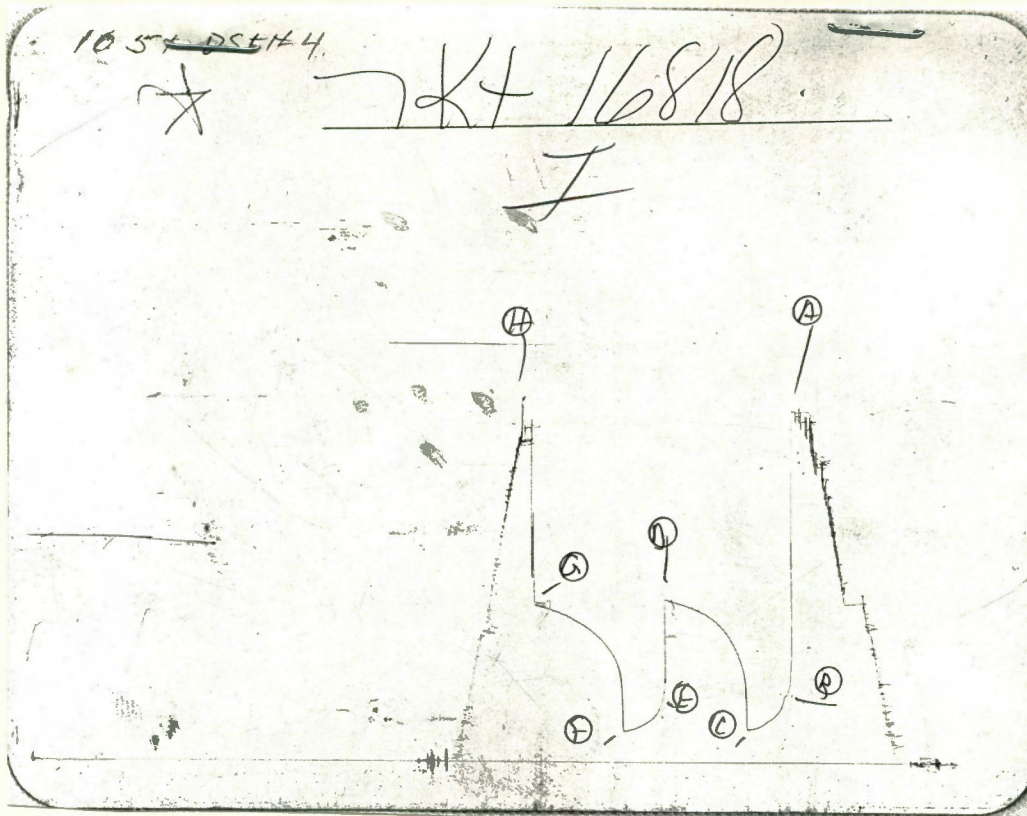
GAS FLOW REPORT

Date : 1-25-91	Ticket # : 16818
Customer : JAY BOY OIL INC.	Lease : DIRKS
Well : 1-B            Test : 4	Geologist : K. GREENWOOD
Elevation (KB) : 2043      Formation : ARBUCKLE	
Section : 14            Township : 20S	
Range : 16W            County : PAWNEE	State : KANSAS
Gauge SN # : 1051      Range : 4250	Clock : 12

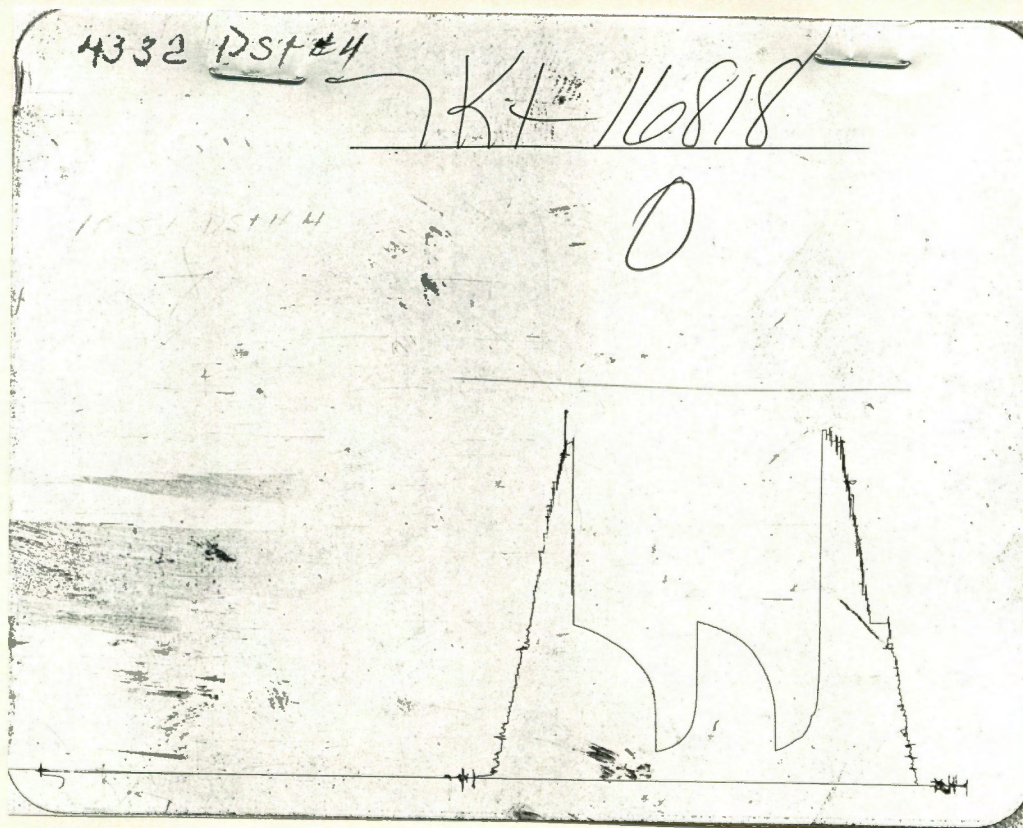
TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
PRE FLOW =====				
2 MIN.	MERLA	1 1/4"		GAS TO SURFACE
5 MIN.	MERLA	1 1/4"	13 PSIG	937000 C.F.P.D.
10 MIN.	MERLA	1 1/4"	11 PSIG	847000 C.F.P.D.
20 MIN.	MERLA	1 1/4"	6 PSIG	599000 C.F.P.D.
30 MIN.	MERLA	1 1/4"	5 PSIG	542000 C.F.P.D.

SECOND FLOW =====				
10 MIN.	MERLA	1 1/4"	8 PSIG	700000 C.F.P.D.
20 MIN.	MERLA	1 1/4"	4 PSIG	480000 C.F.P.D.
30 MIN.	MERLA	1 1/4"	4 PSIG	480000 C.F.P.D.

Gas Bottle SN # : W  
 Date Bottle Filled : 1-25-91  
 Date to be Invoiced : 1-25-91

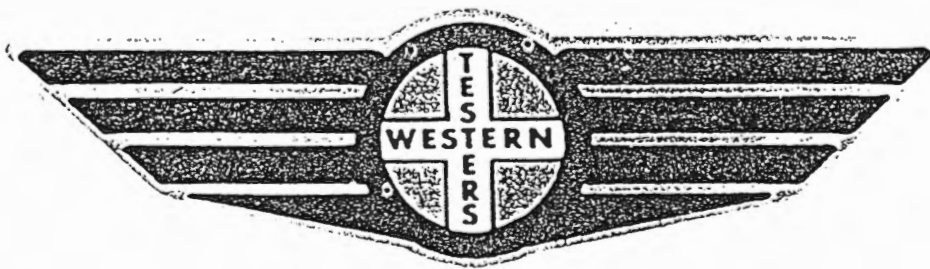


Inside Recorder



Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JAY BOY OIL, INC. LEASE & WELL NO. DIRKS #1-B SEC. 14 TWP. 20S RGE. 16W TEST NO. 5 DATE 1/26/91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1-26-91 TICKET : 16819  
CUSTOMER : JAY BOY OIL INC. LEASE : DIRKS  
WELL : 1-B TEST: 5 GEOLOGIST : K. GREENWOOD  
ELEVATION : 2043 KB FORMATION : ARBUCKLE  
SECTION : 14 TOWNSHIP : 20S  
RANGE : 16W COUNTY : PAWNEE STATE : KANSAS  
GAUGE SN# : 1051 RANGE : 4250 CLOCK : 12

INTERVAL FROM : 3765 TO : 3780 TOTAL DEPTH : 3780  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3760 SIZE : 6.63  
PACKER DEPTH : 3765 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRILLING RIG 3  
MUD TYPE : CHEMICAL VISCOSITY : 50  
WEIGHT : 9.2 WATER LOSS (CC) : 12.8  
CHLORIDES (PPM) : 16000  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3745 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 15 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD STRONG BLOW. GAS TO  
BLOW COMMENT #2 : SURFACE IN 2 MINUTES. SEE FLOW CHART.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 260 FT OF: GASSY OIL-20%GAS:80%OIL  
RECOVERED : 60 FT OF: GAS & OIL CUT MUD  
RECOVERED : 0 FT OF: 10%GAS:25%OIL:65%MUD

Total Barrels Fluid = 4.49  
Total Fluid Prod Rate = 107.72 BFPD  
Indicated Oil Rate = 75.07 BOPD  
Indicated Wtr Rate = 1.31 BWPD  
Corrected Oil Rate = 14.37 BOPD  
Corrected Wtr Rate = 0.25 BWPD

REMARK 1 : TIGHT HOLE  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 2:10 A.M. TIME STARTED OFF BOTTOM : 5:10 A.M.  
WELL TEMPERATURE : 124  
INITIAL HYDROSTATIC PRESSURE (A) 1964  
INITIAL FLOW PERIOD MIN: 30 (B) 272 PSI TO (C) : 226  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 977  
FINAL FLOW PERIOD MIN: 30 (E) 256 PSI TO (F) : 256  
FINAL CLOSED IN PERIOD MIN: 66 (G) 970  
FINAL HYDROSTATIC PRESSURE (H) 1916

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : JAY BOY OIL INC.  
RIG : PAWNEE-KANSAS  
FIELD : DIRKS  
WELL : 1-B  
DATE : 1-26-91  
GAUGE NO : 1051

OPERATIONAL COMMENTS

TIGHT HOLE

COMPANY : JAY BOY OIL INC.  
 WELL : 1-B  
 GAUGE # : 1051  
 DATE : 26/ 1/91

FIELD : DIRKS  
 JOB # : 16819  
 DEPTH : 3780  
 TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	2:10: 0	0.000	272.000	124.00	0.000
3	2:14:59	0.083	247.000	124.00	-25.000
4	2:20: 0	0.167	230.000	124.00	-17.000
5	2:25: 0	0.250	226.000	124.00	-4.000
6	2:29:59	0.333	226.000	124.00	0.000
7	2:35: 0	0.417	226.000	124.00	0.000
8	2:40: 0	0.500	226.000	124.00	0.000
INITIAL SHUT-IN PERIOD					
9	2:43: 0	0.550	668.000	124.00	442.000
10	2:46: 0	0.600	907.000	124.00	239.000
11	2:49: 0	0.650	932.000	124.00	25.000
12	2:52: 0	0.700	949.000	124.00	17.000
13	2:55: 0	0.750	954.000	124.00	5.000
14	2:58: 0	0.800	964.000	124.00	10.000
15	3: 1: 0	0.850	966.000	124.00	2.000
16	3: 4: 0	0.900	968.000	124.00	2.000
17	3: 7: 0	0.950	970.000	124.00	2.000
18	3:10: 0	1.000	972.000	124.00	2.000
19	3:13: 0	1.050	973.000	124.00	1.000
20	3:16: 0	1.100	974.000	124.00	1.000
21	3:19: 0	1.150	975.000	124.00	1.000
22	3:22: 0	1.200	976.000	124.00	1.000
23	3:25: 0	1.250	976.000	124.00	0.000
24	3:28: 0	1.300	976.000	124.00	0.000
25	3:31: 0	1.350	976.000	124.00	0.000
26	3:34: 0	1.400	977.000	124.00	1.000
27	3:37: 0	1.450	977.000	124.00	0.000
28	3:40: 0	1.500	977.000	124.00	0.000
FINAL FLOW PERIOD					
29	3:41: 0	1.517	256.000	124.00	-721.000
30	3:44:59	1.583	256.000	124.00	0.000
31	3:50: 0	1.667	256.000	124.00	0.000
32	3:55: 0	1.750	256.000	124.00	0.000
33	3:59:59	1.833	256.000	124.00	0.000
34	4: 5: 0	1.917	256.000	124.00	0.000
35	4:10: 0	2.000	256.000	124.00	0.000
FINAL SHUT-IN PERIOD					
36	4:13: 0	2.050	766.000	124.00	510.000
37	4:16: 0	2.100	903.000	124.00	137.000
38	4:19: 0	2.150	928.000	124.00	25.000
39	4:22: 0	2.200	940.000	124.00	12.000
40	4:25: 0	2.250	949.000	124.00	9.000
41	4:28: 0	2.300	953.000	124.00	4.000
42	4:31: 0	2.350	955.000	124.00	2.000
43	4:34: 0	2.400	962.000	124.00	7.000
44	4:37: 0	2.450	966.000	124.00	4.000
45	4:40: 0	2.500	969.000	124.00	3.000
46	4:43: 0	2.550	969.000	124.00	0.000
47	4:46: 0	2.600	969.000	124.00	0.000
48	4:49: 0	2.650	970.000	124.00	1.000

COMPANY : JAY BOY OIL INC.  
WELL : 1-B  
GAUGE # : 1051  
DATE : 26/ 1/91

FIELD : DIRKS  
JOB # : 16819  
DEPTH : 3780  
TEST : TIGHT HOLE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	4:52: 0	2.700	970.000	124.00	0.000
50	4:55: 0	2.750	970.000	124.00	0.000
51	4:58: 0	2.800	970.000	124.00	0.000
52	5: 1: 0	2.850	970.000	124.00	0.000
53	5: 4: 0	2.900	970.000	124.00	0.000
54	5: 7: 0	2.950	970.000	124.00	0.000
55	5:10: 0	3.000	970.000	124.00	0.000
56	5:13: 0	3.050	970.000	124.00	0.000
57	5:16: 0	3.100	970.000	124.00	0.000

WESTERN TESTING CO. INC.

GAS FLOW REPORT

Date : 1-26-91	Ticket # : 16819
Customer : JAY BOY OIL INC.	Lease : DIRKS
Well : 1-B            Test : 5	Geologist : K. GREENWOOD
Elevation (KB) : 2043      Formation : ARBUCKLE	
Section : 14            Township : 20S	
Range : 16W            County : PAWNEE	State : KANSAS
Gauge SN # : 1051      Range : 4250	Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
PRE FLOW				
=====				
2 MIN.	MERLA	1 1/4"		GAS TO SURFACE
10 MIN.	MERLA	1 1/4"	5 PSIG	542000 C.F.P.D.
20 MIN.	MERLA	1 1/4"	6 PSIG	599000 C.F.P.D.
30 MIN.	MERLA	1 1/4"	6 PSIG	599000 C.F.P.D.

SECOND FLOW				
=====				
10 MIN.	MERLA	1 1/4"	7 PSIG	653000 C.F.P.D.
20 MIN.	MERLA	1 1/4"	6 PSIG	599000 C.F.P.D.
30 MIN.	MERLA	1 1/4"	5 PSIG	542000 C.F.P.D.

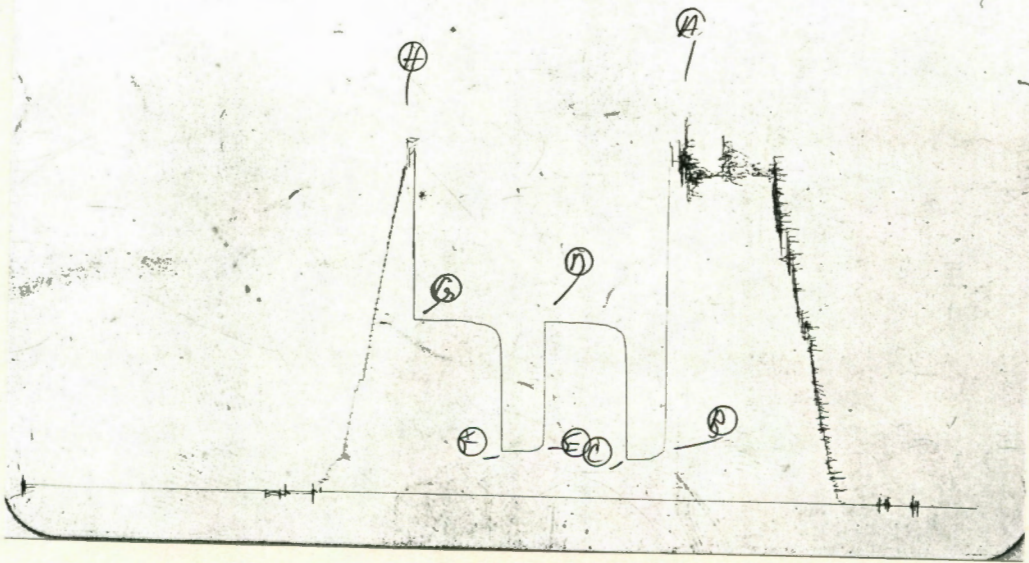
Gas Bottle SN # :  
 Date Bottle Filled : 1-26-91  
 Date to be Invoiced : 1-26-91

1051 DSH#5



K4 16819

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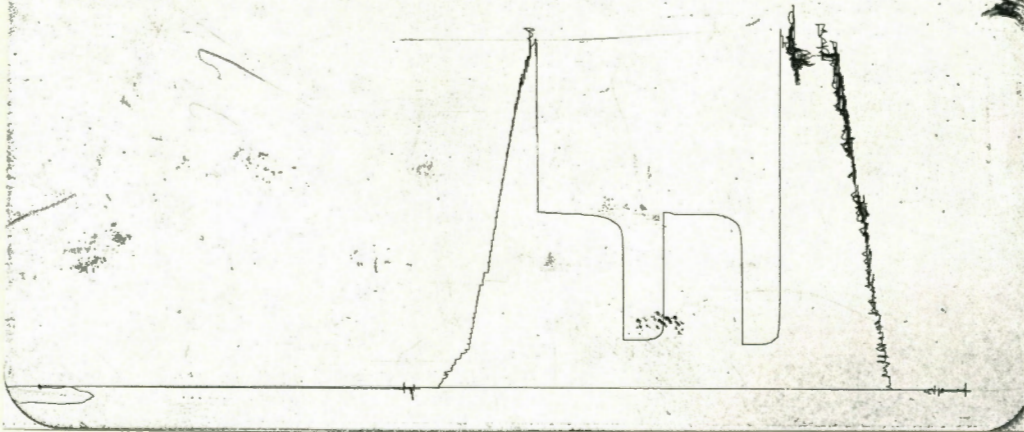


Inside Recorder

4332 DSH#5

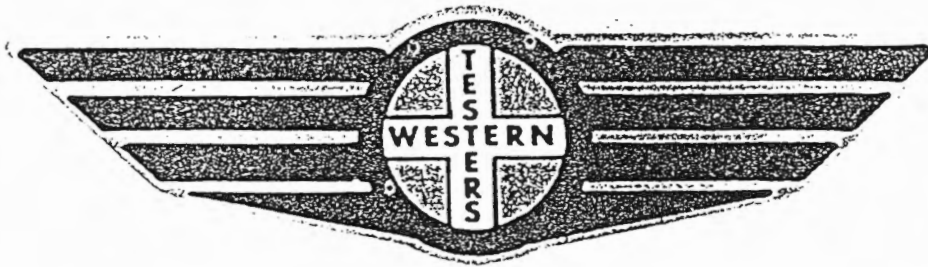
K4 16819

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Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JAY BOY OIL, INC.

LEASE & WELL NO. DIRKS # 1-B

SEC. 14 TWP. 20S RGE. 16W TEST NO. 6 DATE 1-6-91

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1/26/91 TICKET : 16820  
CUSTOMER : JAY BOY OIL INC. LEASE : DIRKS  
WELL : 1-B TEST: 6 GEOLOGIST : GREENWOOD  
ELEVATION : 2043 KB FORMATION : ARBUCKLE  
SECTION : 14 TOWNSHIP : 20S  
RANGE : 16W COUNTY : PAWNEE STATE : KANSAS  
GAUGE SN# : 1051 RANGE : 4250 CLOCK : 12

INTERVAL FROM : 3781 TO : 3796 TOTAL DEPTH : 3796  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3776 SIZE : 6.63  
PACKER DEPTH : 3781 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRILLING RIG 3  
MUD TYPE : CHEMICAL VISCOSITY : 51  
WEIGHT : 9.2 WATER LOSS (CC) : 12.8  
CHLORIDES (PPM) : 17000  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : YES REVERSED OUT ? : YES

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3761 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 15 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD STRONG BLOW-GAS TO  
BLOW COMMENT #2 : SURFACE IN 5 MINUTES. SEE GAS SHEET  
BLOW COMMENT #3 : ATTACHED.  
BLOW COMMENT #4 :

RECOVERED : 2000 FT OF: FREE OIL GRAVITY 40  
RECOVERED : 120 FT OF: GAS & OIL CUT MUD  
RECOVERED : 0 FT OF: 15%GAS:35%OIL:50%MUD

Total Barrels Fluid = 29.74  
Total Fluid Prod Rate = 713.66 BFPD  
Indicated Oil Rate = 687.40 BOPD  
Indicated Wtr Rate = 2.02 BWPD  
Corrected Oil Rate = 282.68 BOPD  
Corrected Wtr Rate = 0.83 BWPD

REMARK 1 :  
REMARK 2 : FLOWED OIL 5 MINUTES INTO FINAL SHUT-IN.  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 2:10 PM TIME STARTED OFF BOTTOM : 5:10 PM  
WELL TEMPERATURE : 106  
INITIAL HYDROSTATIC PRESSURE (A) 1921  
INITIAL FLOW PERIOD MIN: 30 (B) 272 PSI TO (C) : 350  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1010  
FINAL FLOW PERIOD MIN: 30 (E) 461 PSI TO (F) : 572  
FINAL CLOSED IN PERIOD MIN: 63 (G) 997  
FINAL HYDROSTATIC PRESSURE (H) 1921

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : JAY BOY OIL INC.  
RIG : PAWNEE-KANSAS  
FIELD : DIRKS  
WELL : 1-B  
DATE : 1/26/91  
GAUGE NO : 1051

OPERATIONAL COMMENTS

FLOWED OIL 5 MINUTES INTO FINAL SHUT-IN.

COMPANY : JAY BOY OIL INC.  
WELL : 1-B  
GAUGE # : 1051  
DATE : 26/ 1/91

FIELD : DIRKS  
JOB # : 16820  
DEPTH : 3796  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	2:10: 0	0.000	272.000	106.00	0.000
3	2:14:59	0.083	272.000	106.00	0.000
4	2:20: 0	0.167	272.000	106.00	0.000
5	2:25: 0	0.250	272.000	106.00	0.000
6	2:29:59	0.333	279.000	106.00	7.000
7	2:35: 0	0.417	317.000	106.00	38.000
8	2:40: 0	0.500	350.000	106.00	33.000
INITIAL SHUT-IN PERIOD					
9	2:43: 0	0.550	921.000	106.00	571.000
10	2:46: 0	0.600	955.000	106.00	34.000
11	2:49: 0	0.650	965.000	106.00	10.000
12	2:52: 0	0.700	974.000	106.00	9.000
13	2:55: 0	0.750	978.000	106.00	4.000
14	2:58: 0	0.800	987.000	106.00	9.000
15	3: 1: 0	0.850	990.000	106.00	3.000
16	3: 4: 0	0.900	992.000	106.00	2.000
17	3: 7: 0	0.950	995.000	106.00	3.000
18	3:10: 0	1.000	1000.000	106.00	5.000
19	3:13: 0	1.050	1001.000	106.00	1.000
20	3:16: 0	1.100	1002.000	106.00	1.000
21	3:19: 0	1.150	1002.000	106.00	0.000
22	3:22: 0	1.200	1003.000	106.00	1.000
23	3:25: 0	1.250	1003.000	106.00	0.000
24	3:28: 0	1.300	1006.000	106.00	3.000
25	3:31: 0	1.350	1009.000	106.00	3.000
26	3:34: 0	1.400	1010.000	106.00	1.000
27	3:37: 0	1.450	1010.000	106.00	0.000
28	3:40: 0	1.500	1010.000	106.00	0.000
FINAL FLOW PERIOD					
29	3:41: 0	1.517	461.000	106.00	-549.000
30	3:44:59	1.583	461.000	106.00	0.000
31	3:50: 0	1.667	461.000	106.00	0.000
32	3:55: 0	1.750	478.000	106.00	17.000
33	3:59:59	1.833	510.000	106.00	32.000
34	4: 5: 0	1.917	541.000	106.00	31.000
35	4:10: 0	2.000	572.000	106.00	31.000
FINAL SHUT-IN PERIOD					
36	4:13: 0	2.050	870.000	106.00	298.000
37	4:16: 0	2.100	939.000	106.00	69.000
38	4:19: 0	2.150	951.000	106.00	12.000
39	4:22: 0	2.200	959.000	106.00	8.000
40	4:25: 0	2.250	965.000	106.00	6.000
41	4:28: 0	2.300	970.000	106.00	5.000
42	4:31: 0	2.350	972.000	106.00	2.000
43	4:34: 0	2.400	976.000	106.00	4.000
44	4:37: 0	2.450	978.000	106.00	2.000
45	4:40: 0	2.500	981.000	106.00	3.000
46	4:43: 0	2.550	983.000	106.00	2.000
47	4:46: 0	2.600	985.000	106.00	2.000
48	4:49: 0	2.650	988.000	106.00	3.000

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WELL : 1-B  
GAUGE # : 1051  
DATE : 26/ 1/91

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DEPTH : 3796  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	4:52: 0	2.700	990.000	106.00	2.000
50	4:55: 0	2.750	991.000	106.00	1.000
51	4:58: 0	2.800	992.000	106.00	1.000
52	5: 1: 0	2.850	993.000	106.00	1.000
53	5: 4: 0	2.900	994.000	106.00	1.000
54	5: 7: 0	2.950	995.000	106.00	1.000
55	5:10: 0	3.000	996.000	106.00	1.000
56	5:13: 0	3.050	997.000	106.00	1.000

WESTERN TESTING CO. INC.

GAS FLOW REPORT

Date : 1/26/91	Ticket # : 16820
Customer : JAY BOY OIL INC.	Lease : DIRKS
Well : 1-B            Test : 6	Geologist : GREENWOOD
Elevation (KB) : 2043 KB	Formation : ARBUCKLE
Section : 14	Township : 20S
Range : 16W	County : PAWNEE
Gauge SN # : 1051	State : KANSAS
	Range : 4250
	Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

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5 MIN	MERLA	1/2		GAS TO SURFACE
10 MIN	MERLA	1/2	5 PSIG	78100 C F P D
20 MIN	MERLA	1/2	4 PSIG	68800 C F P D
30 MIN	MERLA	1/2	2 PSIG	47700 C F P D

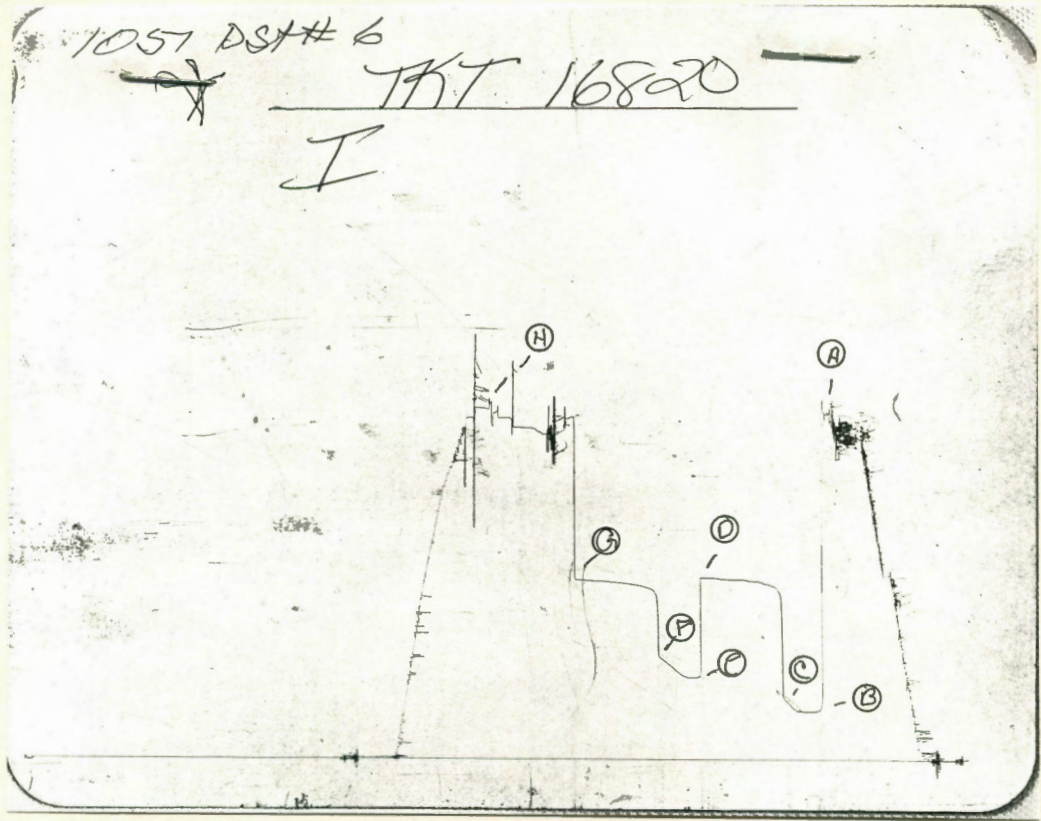
SECOND FLOW

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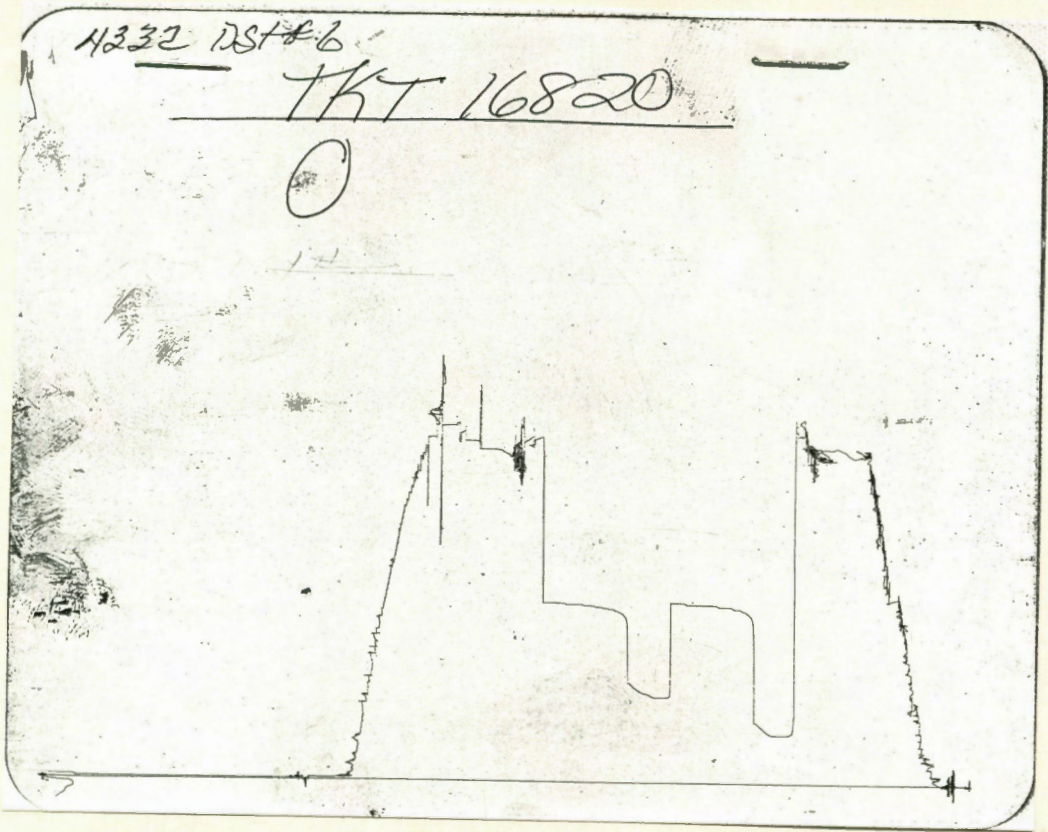
10 MIN	MERLA	1/2	5"WTR	14100 C F P D
20 MIN	MERLA	1/2	10"WTR	19900 C F P D
30 MIN	MERLA	1/2	5"WTR	14100 C F P D

GUAGE JUMPING FROM  
14100 - 34300  
FLOWED OIL 5 MIN INTO  
FINAL SHUT-IN

Gas Bottle SN # :  
Date Bottle Filled : 1/26/91  
Date to be Invoiced : 1/26/91



Inside Recorder

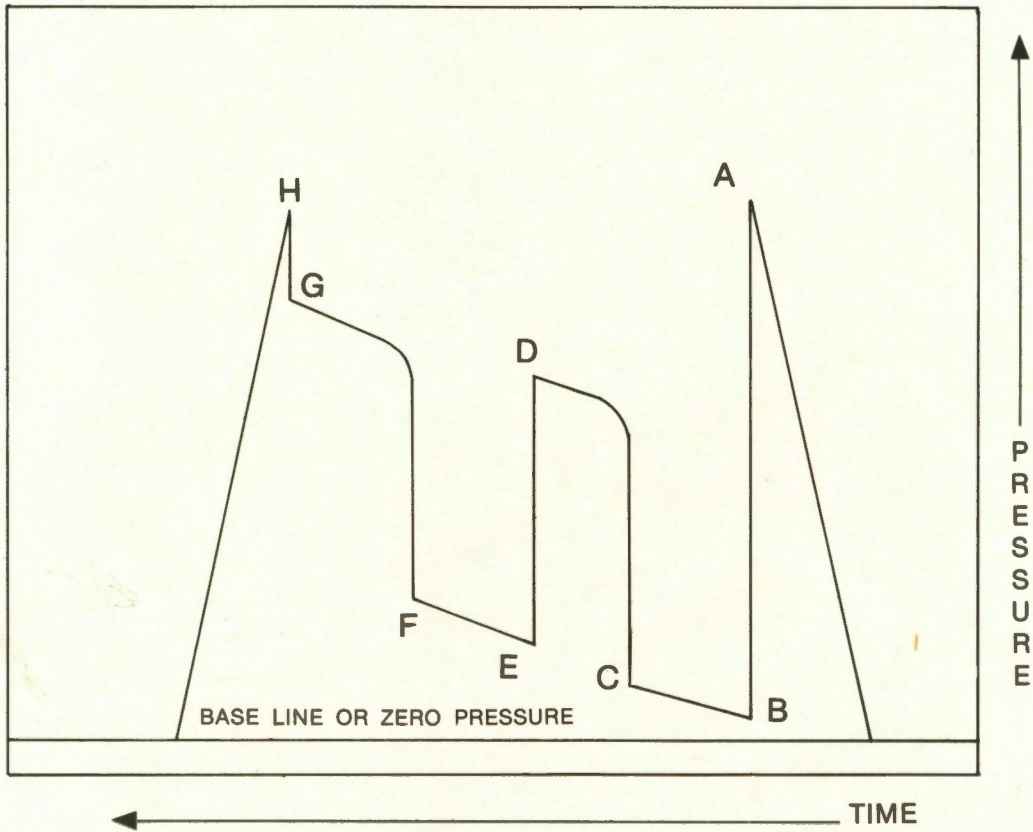


Outside Recorder

### COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

### AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

E - Second Initial Flow

F - Second Final Flow

G - Final Shut-In

H - Final Hydrostatic