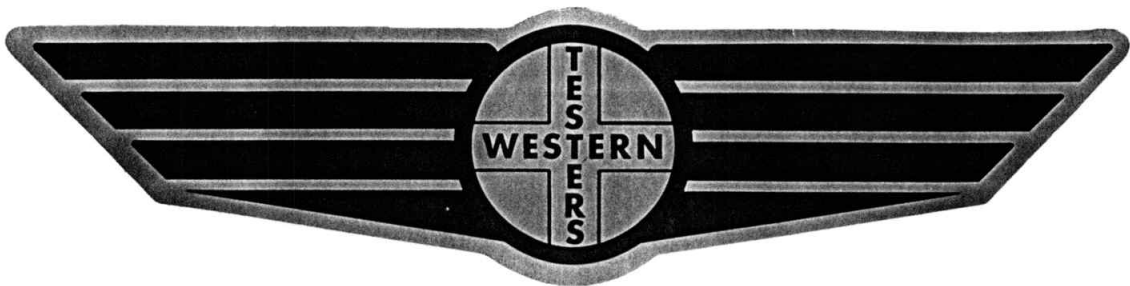


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY JAY BOY OIL COMPANY, INC. LEASE & WELL NO. #1 HARVEY GRANT FARMS SEC. 2 TWP. 23S RGE. 2W TEST NO. 1 DATE 8/2/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-2-86 TICKET : 11111
CUSTOMER : JAY BOY OIL COMPANY INC. LEASE : HARVEY GRANT FARMS
WELL : #1 TEST: 1 GEOLOGIST : DOUGLAS R? JR.?
ELEVATION : 1438 FORMATION : WINFIELD
SECTION : 2 TOWNSHIP : 23S
RANGE : 2W COUNTY : HARVEY STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 495 TO : 552 TOTAL DEPTH : 552
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 490 SIZE : 6.63
PACKER DEPTH : 495 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRILLING RIG #4
MUD TYPE : CHEMICAL VISCOSITY : 32
WEIGHT : 9.0 WATER LOSS (CC) : 48.6
CHLORIDES (PPM) : 1000
JARS-MAKE : -- SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 355 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 120 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 57 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 XH

BLOW COMMENT #1 : INITIAL FLOW-VERY WEAK BLOW DIED IN 3 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-DECREASING WEAK BLOW(STARTED OUT AT
BLOW COMMENT #3 : 3 INCHES) DECREASED AND DIED IN 7 MINUTES.
BLOW COMMENT #4 :

RECOVERED : 65 FT OF: MUD

Total Barrels Fluid = 0.31
Total Fluid Prod Rate = 7.33 BFPD
Indicated Wtr Rate = 5.64 BWPD

REMARK 1 : MISRUN-PRESSURES QUESTIONABLE
REMARK 2 : TOOL PICKED-UP TOO HIGH WHEN TURNED.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 1:30 PM TIME STARTED OFF BOTTOM : 3:30 PM
WELL TEMPERATURE : 91
INITIAL HYDROSTATIC PRESSURE (A) 250
INITIAL FLOW PERIOD MIN: 30 (B) 41 PSI TO (C) : 41
INITIAL CLOSED IN PERIOD MIN: 30 (D) 132
FINAL FLOW PERIOD MIN: 30 (E) 83 PSI TO (F) : 83
FINAL CLOSED IN PERIOD MIN: 30 (G) 121
FINAL HYDROSTATIC PRESSURE (H) 229

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL COMPANY INC.
RIG : HARVEY-KANSAS
FIELD : HARVEY GRANT FARMS
WELL : #1
DATE : 8-2-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

MISRUN-PRESSURES QUESTIONABLE
TOOL PICKED-UP TOO HIGH WHEN TURNED.

COMPANY : JAY BOY OIL COMPANY INC.
WELL : #1
GAUGE # : 10270
DATE : 2/ 8/86

FIELD : HARVEY GRANT, FARMS
JOB # : 11111
DEPTH : 552
EVENT : MISRUN-PRESSURES QUESTIONABLE

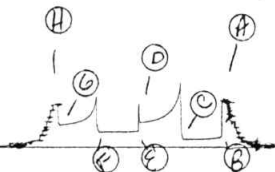
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1:30: 0	0.000	41.000	91.00	0.000
2	1:34:60	0.083	41.000	91.00	0.000
3	1:40: 1	0.167	41.000	91.00	0.000
4	1:45: 0	0.250	41.000	91.00	0.000
5	1:49:60	0.333	41.000	91.00	0.000
6	1:55: 1	0.417	41.000	91.00	0.000
7	2: 0: 0	0.500	41.000	91.00	0.000
8	2: 3: 0	0.550	306.000	91.00	265.000
9	2: 6: 0	0.600	220.000	91.00	-86.000
10	2: 9: 0	0.650	190.000	91.00	-30.000
11	2:12: 0	0.700	175.000	91.00	-15.000
12	2:15: 0	0.750	158.000	91.00	-17.000
13	2:18: 0	0.800	150.000	91.00	-8.000
14	2:21: 0	0.850	145.000	91.00	-5.000
15	2:24: 0	0.900	138.000	91.00	-7.000
16	2:27: 0	0.950	135.000	91.00	-3.000
17	2:30: 0	1.000	132.000	91.00	-3.000
18	2:31: 1	1.017	83.000	91.00	-49.000
19	2:34:60	1.083	83.000	91.00	0.000
20	2:40: 1	1.167	83.000	91.00	0.000
21	2:45: 0	1.250	83.000	91.00	0.000
22	2:49:60	1.333	83.000	91.00	0.000
23	2:55: 1	1.417	83.000	91.00	0.000
24	3: 0: 0	1.500	83.000	91.00	0.000
25	3: 3: 0	1.550	239.000	91.00	156.000
26	3: 6: 0	1.600	177.000	91.00	-62.000
27	3: 9: 0	1.650	156.000	91.00	-21.000
28	3:12: 0	1.700	141.000	91.00	-15.000
29	3:15: 0	1.750	133.000	91.00	-8.000
30	3:18: 0	1.800	129.000	91.00	-4.000
31	3:21: 0	1.850	127.000	91.00	-2.000
32	3:24: 0	1.900	125.000	91.00	-2.000
33	3:27: 0	1.950	123.000	91.00	-2.000
34	3:30: 0	2.000	121.000	91.00	-2.000

WESTERN TESTERS INC.

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10270

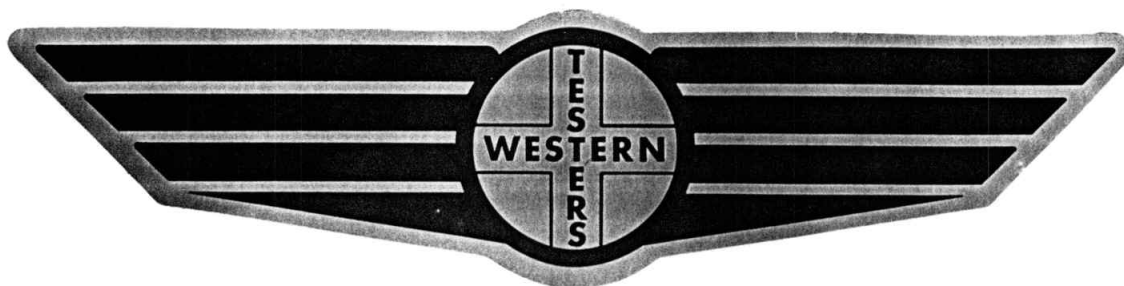


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY Jay Boy Oil Company, Inc. LEASE & WELL NO. Harvey Grant Farms #1 SEC. 2 TWP. 23S RGE. 2W TEST NO. 2 DATE 8-05-86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-5-86 TICKET : 11112
CUSTOMER : JAY BOY OIL CO. INC. LEASE : HARVEY GRANT FARMS
WELL : #1 TEST: 2 GEOLOGIST : DAVIS
ELEVATION : 1438 FORMATION : KANSAS CITY
SECTION : 2 TOWNSHIP : 23S
RANGE : 2W COUNTY : HARVEY STATE : KS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 2686 TO : 2730 TOTAL DEPTH : 2730
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2681 SIZE : 6.63
PACKER DEPTH : 2686 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG
MUD TYPE : CHEMICAL VISCOSITY : 36
WEIGHT : 9.3 WATER LOSS (CC) : 15.4
CHLORIDES (PPM) : 3000
JARS-MAKE : WTC SERIAL NUMBER : 417
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2539 FT I.D. inch : 3.80
TEST TOOL LENGTH : 27 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 44 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 : WEAK BLOW BUILDING TO STRONG IN 21 MIN.
BLOW COMMENT #2 : ON INITIAL FLOW PERIOD.
BLOW COMMENT #3 : WEAK BUILDING TO A GOOD BLOW 1/2" TO 7"
BLOW COMMENT #4 : ON FINAL FLOW PERIOD.

RECOVERED : 120 FT OF: THIN MUD
RECOVERED : 240 FT OF: MUDDY WATER 30% MUD 70% WATER

Total Barrels Fluid = 3.93
Total Fluid Prod Rate = 75.47 BFPD
Indicated Wtr Rate = 64.98 BWPD

REMARK 1 :
REMARK 2 : 78000 PPM CHLORIDES
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 11:50 PM TIME STARTED OFF BOTTOM : 3:35 AM
WELL TEMPERATURE : 107
INITIAL HYDROSTATIC PRESSURE (A) 1350
INITIAL FLOW PERIOD MIN: 30 (B) 55 PSI TO (C) : 114
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1087
FINAL FLOW PERIOD MIN: 45 (E) 139 PSI TO (F) : 190
FINAL CLOSED IN PERIOD MIN: 93 (G) 1077
FINAL HYDROSTATIC PRESSURE (H) 1302

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KS
FIELD : HARVEY GRANT FARMS
WELL : #1
DATE : 8-5-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

78000 PPM CHLORIDES

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 5/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11112
DEPTH : 2730
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11:50: 0	0.000	55.000	107.00	0.000
2	11:54:60	0.083	55.000	107.00	0.000
3	12: 0: 1	0.167	70.000	107.00	15.000
4	12: 5: 0	0.250	85.000	107.00	15.000
5	12: 9:60	0.333	95.000	107.00	10.000
6	12:15: 1	0.417	106.000	107.00	11.000
7	12:20: 0	0.500	114.000	107.00	8.000
8	12:23: 0	0.550	917.000	107.00	803.000
9	12:26: 0	0.600	962.000	107.00	45.000
10	12:29: 0	0.650	983.000	107.00	21.000
11	12:32: 0	0.700	997.000	107.00	14.000
12	12:35: 0	0.750	1010.000	107.00	13.000
13	12:38: 0	0.800	1021.000	107.00	11.000
14	12:41: 0	0.850	1031.000	107.00	10.000
15	12:44: 0	0.900	1039.000	107.00	8.000
16	12:47: 0	0.950	1045.000	107.00	6.000
17	12:50: 0	1.000	1051.000	107.00	6.000
18	12:53: 0	1.050	1057.000	107.00	6.000
19	12:56: 0	1.100	1062.000	107.00	5.000
20	12:59: 0	1.150	1068.000	107.00	6.000
21	13: 2: 0	1.200	1072.000	107.00	4.000
22	13: 5: 0	1.250	1075.000	107.00	3.000
23	13: 8: 0	1.300	1078.000	107.00	3.000
24	13:11: 0	1.350	1081.000	107.00	3.000
25	13:14: 0	1.400	1084.000	107.00	3.000
26	13:17: 0	1.450	1086.000	107.00	2.000
27	13:20: 0	1.500	1087.000	107.00	1.000
28	13:21: 1	1.517	139.000	107.00	-948.000
29	13:24:60	1.583	139.000	107.00	0.000
30	13:30: 1	1.667	139.000	107.00	0.000
31	13:35: 0	1.750	146.000	107.00	7.000
32	13:39:60	1.833	154.000	107.00	8.000
33	13:45: 1	1.917	160.000	107.00	6.000
34	13:50: 0	2.000	168.000	107.00	8.000
35	13:54:60	2.083	177.000	107.00	9.000
36	14: 0: 1	2.167	185.000	107.00	8.000
37	14: 5: 0	2.250	190.000	107.00	5.000
38	14: 8: 0	2.300	892.000	107.00	702.000
39	14:11: 0	2.350	923.000	107.00	31.000
40	14:14: 0	2.400	941.000	107.00	18.000
41	14:17: 0	2.450	958.000	107.00	17.000
42	14:20: 0	2.500	969.000	107.00	11.000
43	14:23: 0	2.550	980.000	107.00	11.000
44	14:26: 0	2.600	989.000	107.00	9.000
45	14:29: 0	2.650	997.000	107.00	8.000
46	14:32: 0	2.700	1006.000	107.00	9.000
47	14:35: 0	2.750	1014.000	107.00	8.000
48	14:38: 0	2.800	1019.000	107.00	5.000
49	14:41: 0	2.850	1024.000	107.00	5.000
50	14:44: 0	2.900	1029.000	107.00	5.000
51	14:47: 0	2.950	1033.000	107.00	4.000
52	14:50: 0	3.000	1038.000	107.00	5.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 5/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11112
DEPTH : 2730
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
53	14:53: 0	3.050	1043.000	107.00	5.000
54	14:56: 0	3.100	1047.000	107.00	4.000
55	14:59: 0	3.150	1050.000	107.00	3.000
56	15: 2: 0	3.200	1053.000	107.00	3.000
57	15: 5: 0	3.250	1055.000	107.00	2.000
58	15: 8: 0	3.300	1057.000	107.00	2.000
59	15:11: 0	3.350	1059.000	107.00	2.000
60	15:14: 0	3.400	1061.000	107.00	2.000
61	15:17: 0	3.450	1063.000	107.00	2.000
62	15:20: 0	3.500	1065.000	107.00	2.000
63	15:23: 0	3.550	1067.000	107.00	2.000
64	15:26: 0	3.600	1069.000	107.00	2.000
65	15:29: 0	3.650	1071.000	107.00	2.000
66	15:32: 0	3.700	1073.000	107.00	2.000
67	15:35: 0	3.750	1075.000	107.00	2.000
68	15:38: 0	3.800	1077.000	107.00	2.000

WESTERN TESTERS INC.

TK# 11112
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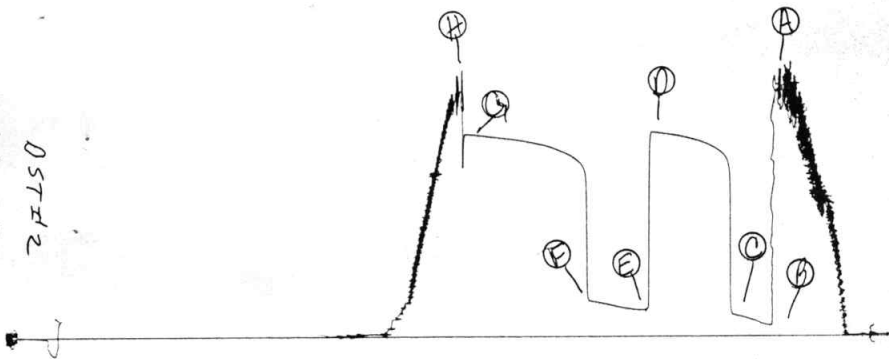
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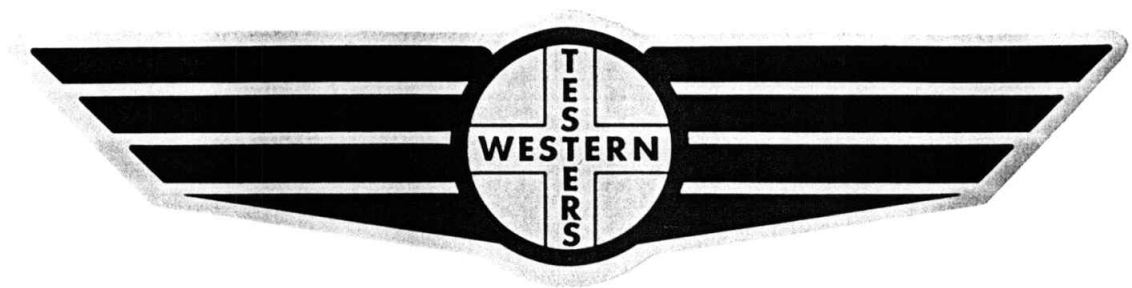
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10270

OST#2



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-6-86 TICKET : 11113
CUSTOMER : JAY BOY OIL CO. INC. LEASE : HARVEY GRANT FARMS
WELL : #1 TEST: 3 GEOLOGIST : D. DAVIS
ELEVATION : 1438 FORMATION : MISSISSIPPI
SECTION : 2 TOWNSHIP : 23S
RANGE : 2W COUNTY : HARVEY STATE : KS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 2927 TO : 2954 TOTAL DEPTH : 2954
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2922 SIZE : 6.63
PACKER DEPTH : 2927 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG
MUD TYPE : CHEMICAL VISCOSITY : 36
WEIGHT : 9.3 WATER LOSS (CC) : 15
CHLORIDES (PPM) : 3000
JARS-MAKE : WTC SERIAL NUMBER : 417
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2780 FT I.D. inch : 3.80
TEST TOOL LENGTH : 27 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 27 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 : WEAK 1" BLOW BUILDING TO A GOOD 8" BLOW
BLOW COMMENT #2 : ON INITIAL FLOW PERIOD.
BLOW COMMENT #3 : WEAK BUILDING TO A STRONG BLOW IN 10 MIN.
BLOW COMMENT #4 : ON FINAL FLOW PERIOD.

RECOVERED : 20 FT OF: MUD

Total Barrels Fluid = 0.09
Total Fluid Prod Rate = 1.81 BFPD
Indicated Wtr Rate = 1.62 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 12:55 AM TIME STARTED OFF BOTTOM : 4:40 AM
WELL TEMPERATURE : 110
INITIAL HYDROSTATIC PRESSURE (A) 1410
INITIAL FLOW PERIOD MIN: 30 (B) 32 PSI TO (C) : 32
INITIAL CLOSED IN PERIOD MIN: 60 (D) 285
FINAL FLOW PERIOD MIN: 45 (E) 33 PSI TO (F) : 33
FINAL CLOSED IN PERIOD MIN: 93 (G) 293
FINAL HYDROSTATIC PRESSURE (H) 1373

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KS
FIELD : HARVEY GRANT FARMS
WELL : #1
DATE : 8-6-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 6/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11113
DEPTH : 2954
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	12:55: 0	0.000	32.000	110.00	0.000
2	12:59:60	0.083	32.000	110.00	0.000
3	13: 5: 1	0.167	32.000	110.00	0.000
4	13:10: 0	0.250	32.000	110.00	0.000
5	13:14:60	0.333	32.000	110.00	0.000
6	13:20: 1	0.417	32.000	110.00	0.000
7	13:25: 0	0.500	32.000	110.00	0.000
8	13:28: 0	0.550	35.000	110.00	3.000
9	13:31: 0	0.600	48.000	110.00	13.000
10	13:34: 0	0.650	68.000	110.00	20.000
11	13:37: 0	0.700	87.000	110.00	19.000
12	13:40: 0	0.750	107.000	110.00	20.000
13	13:43: 0	0.800	122.000	110.00	15.000
14	13:46: 0	0.850	137.000	110.00	15.000
15	13:49: 0	0.900	152.000	110.00	15.000
16	13:52: 0	0.950	166.000	110.00	14.000
17	13:55: 0	1.000	179.000	110.00	13.000
18	13:58: 0	1.050	191.000	110.00	12.000
19	14: 1: 0	1.100	206.000	110.00	15.000
20	14: 4: 0	1.150	216.000	110.00	10.000
21	14: 7: 0	1.200	227.000	110.00	11.000
22	14:10: 0	1.250	237.000	110.00	10.000
23	14:13: 0	1.300	247.000	110.00	10.000
24	14:16: 0	1.350	256.000	110.00	9.000
25	14:19: 0	1.400	268.000	110.00	12.000
26	14:22: 0	1.450	279.000	110.00	11.000
27	14:25: 0	1.500	285.000	110.00	6.000
28	14:26: 1	1.517	33.000	110.00	-252.000
29	14:29:60	1.583	33.000	110.00	0.000
30	14:35: 1	1.667	33.000	110.00	0.000
31	14:40: 0	1.750	33.000	110.00	0.000
32	14:44:60	1.833	33.000	110.00	0.000
33	14:50: 1	1.917	33.000	110.00	0.000
34	14:55: 0	2.000	33.000	110.00	0.000
35	14:59:60	2.083	33.000	110.00	0.000
36	15: 5: 1	2.167	33.000	110.00	0.000
37	15:10: 0	2.250	33.000	110.00	0.000
38	15:13: 0	2.300	35.000	110.00	2.000
39	15:16: 0	2.350	44.000	110.00	9.000
40	15:19: 0	2.400	54.000	110.00	10.000
41	15:22: 0	2.450	63.000	110.00	9.000
42	15:25: 0	2.500	70.000	110.00	7.000
43	15:28: 0	2.550	80.000	110.00	10.000
44	15:31: 0	2.600	89.000	110.00	9.000
45	15:34: 0	2.650	97.000	110.00	8.000
46	15:37: 0	2.700	106.000	110.00	9.000
47	15:40: 0	2.750	112.000	110.00	6.000
48	15:43: 0	2.800	119.000	110.00	7.000
49	15:46: 0	2.850	127.000	110.00	8.000
50	15:49: 0	2.900	137.000	110.00	10.000
51	15:52: 0	2.950	145.000	110.00	8.000
52	15:55: 0	3.000	156.000	110.00	11.000

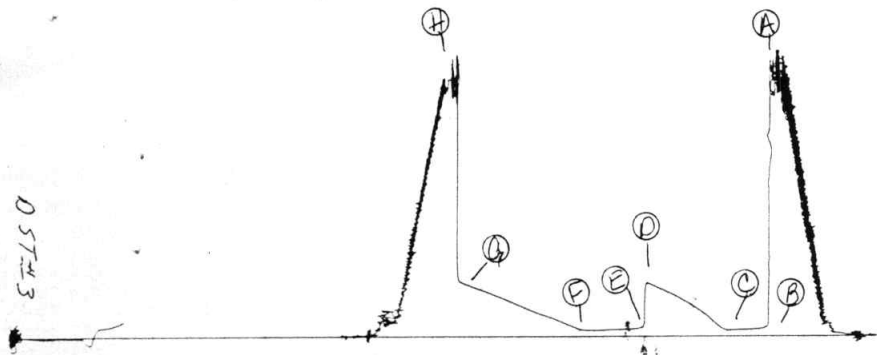
COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 6/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11113
DEPTH : 2954
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	15:58: 0	3.050	164.000	110.00	8.000
54	16: 1: 0	3.100	175.000	110.00	11.000
55	16: 4: 0	3.150	185.000	110.00	10.000
56	16: 7: 0	3.200	193.000	110.00	8.000
57	16:10: 0	3.250	202.000	110.00	9.000
58	16:13: 0	3.300	210.000	110.00	8.000
59	16:16: 0	3.350	218.000	110.00	8.000
60	16:19: 0	3.400	227.000	110.00	9.000
61	16:22: 0	3.450	237.000	110.00	10.000
62	16:25: 0	3.500	245.000	110.00	8.000
63	16:28: 0	3.550	253.000	110.00	8.000
64	16:31: 0	3.600	261.000	110.00	8.000
65	16:34: 0	3.650	269.000	110.00	8.000
66	16:37: 0	3.700	278.000	110.00	9.000
67	16:40: 0	3.750	287.000	110.00	9.000
68	16:43: 0	3.800	293.000	110.00	6.000

WESTERN TESTERS INC.

Tk+ # 11113
I.



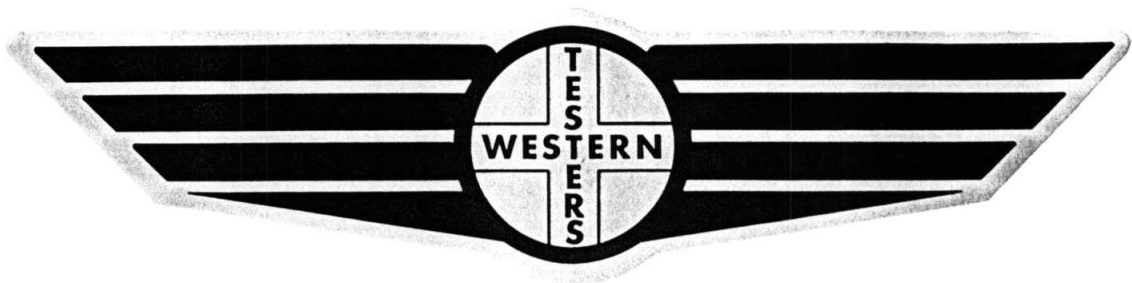
OST#3

10370

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05F113
13268

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY Jay Boy Oil Company, Inc. LEASE & WELL NO. Harvey Grant Farms #1 SEC. 2 TWP. 23S RGE. 2W TEST NO. 4 DATE 8-07-86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-7-86
CUSTOMER : JAY BOY OIL CO. INC.
TICKET : 11114
LEASE : HARVEY GRANT FARMS
WELL : #1 TEST: 4
ELEVATION : 1438
SECTION : 2
RANGE : 2W COUNTY : HARVEY
GAUGE SN# : 10270 RANGE : 4150
GEOLOGIST : D. DAVIS
FORMATION : MISS DOLO
TOWNSHIP : 23S
STATE : KS
CLOCK : 12

INTERVAL FROM : 2960 TO : 2979 TOTAL DEPTH : 2979
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2955 SIZE : 6.63
PACKER DEPTH : 2960 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG.
MUD TYPE : CHEMICAL VISCOSITY : 39
WEIGHT : 9.1 WATER LOSS (CC) : 10
CHLORIDES (PPM) : 2500
JARS-MAKE : WTC SERIAL NUMBER : 417
DID WELL FLOW ? : GAS REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2813 FT I.D. inch : 3.80
TEST TOOL LENGTH : 27 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 19 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 : STRONG BLOW THROUGHOUT TEST.
BLOW COMMENT #2 : GAS TO SURFACE IN 2 MIN.
BLOW COMMENT #3 : ON INITIAL FLOW PERIOD.
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: WATER
RECOVERED : 60 FT OF: MDDY GSSY OIL 17%G 56%O 7%W 20%M
RECOVERED : 60 FT OF: MDDY GSSY OIL 10%G 50%O 13%W 27%M

Total Barrels Fluid = 0.63
Total Fluid Prod Rate = 10.15 BFPD
Indicated Oil Rate = 4.95 BOPD Indicated Wtr Rate = 3.17
Corrected Oil Rate = 11.98 BOPD Corrected Wtr Rate = 7.66

REMARK 1 :
REMARK 2 : SEE ATTACHED SHEET FOR GAS MEASUREMENTS.
REMARK 3 : 22000 PPM CHLORIDES
REMARK 4 :

SET PACKER(S) : 2:05PM TIME STARTED OFF BOTTOM : 6:35PM
WELL TEMPERATURE : 112
INITIAL HYDROSTATIC PRESSURE (A) 1410
INITIAL FLOW PERIOD MIN: 45 (B) 395 PSI TO (C) : 451
INITIAL CLOSED IN PERIOD MIN: 93 (D) 855
FINAL FLOW PERIOD MIN: 45 (E) 439 PSI TO (F) : 472
FINAL CLOSED IN PERIOD MIN: 90 (G) 850
FINAL HYDROSTATIC PRESSURE (H) 1394

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KS
FIELD : HARVEY GRANT FARMS
WELL : #1
DATE : 8-7-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

SEE ATTACHED SHEET FOR GAS MEASUREMENTS.
22000 PPM CHLORIDES

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 7/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11114
DEPTH : 2979
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2: 5: 0	0.000	395.000	112.00	0.000
2	2: 9: 60	0.083	416.000	112.00	21.000
3	2:15: 1	0.167	422.000	112.00	6.000
4	2:20: 0	0.250	429.000	112.00	7.000
5	2:24: 60	0.333	433.000	112.00	4.000
6	2:30: 1	0.417	435.000	112.00	2.000
7	2:35: 0	0.500	439.000	112.00	4.000
8	2:39: 60	0.583	442.000	112.00	3.000
9	2:45: 1	0.667	449.000	112.00	7.000
10	2:50: 0	0.750	451.000	112.00	2.000
11	2:53: 0	0.800	813.000	112.00	362.000
12	2:56: 0	0.850	836.000	112.00	23.000
13	2:59: 0	0.900	843.000	112.00	7.000
14	3: 2: 0	0.950	847.000	112.00	4.000
15	3: 5: 0	1.000	849.000	112.00	2.000
16	3: 8: 0	1.050	849.000	112.00	0.000
17	3:11: 0	1.100	849.000	112.00	0.000
18	3:14: 0	1.150	849.000	112.00	0.000
19	3:17: 0	1.200	849.000	112.00	0.000
20	3:20: 0	1.250	849.000	112.00	0.000
21	3:23: 0	1.300	849.000	112.00	0.000
22	3:26: 0	1.350	849.000	112.00	0.000
23	3:29: 0	1.400	849.000	112.00	0.000
24	3:32: 0	1.450	851.000	112.00	2.000
25	3:35: 0	1.500	854.000	112.00	3.000
26	3:38: 0	1.550	855.000	112.00	1.000
27	3:41: 0	1.600	855.000	112.00	0.000
28	3:44: 0	1.650	855.000	112.00	0.000
29	3:47: 0	1.700	855.000	112.00	0.000
30	3:50: 0	1.750	855.000	112.00	0.000
31	3:53: 0	1.800	855.000	112.00	0.000
32	3:56: 0	1.850	855.000	112.00	0.000
33	3:59: 0	1.900	855.000	112.00	0.000
34	4: 2: 0	1.950	855.000	112.00	0.000
35	4: 5: 0	2.000	855.000	112.00	0.000
36	4: 8: 0	2.050	855.000	112.00	0.000
37	4:11: 0	2.100	855.000	112.00	0.000
38	4:14: 0	2.150	855.000	112.00	0.000
39	4:17: 0	2.200	855.000	112.00	0.000
40	4:20: 0	2.250	855.000	112.00	0.000
41	4:23: 0	2.300	855.000	112.00	0.000
42	4:24: 1	2.317	439.000	112.00	-416.000
43	4:27: 60	2.383	452.000	112.00	13.000
44	4:33: 1	2.467	462.000	112.00	10.000
45	4:38: 0	2.550	466.000	112.00	4.000
46	4:42: 60	2.633	468.000	112.00	2.000
47	4:48: 1	2.717	470.000	112.00	2.000
48	4:53: 0	2.800	472.000	112.00	2.000
49	4:57: 60	2.883	472.000	112.00	0.000
50	5: 3: 1	2.967	472.000	112.00	0.000
51	5: 8: 0	3.050	472.000	112.00	0.000
52	5:11: 0	3.100	811.000	112.00	339.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 7/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11114
DEPTH : 2979
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	5:14: 0	3.150	831.000	112.00	20.000
54	5:17: 0	3.200	838.000	112.00	7.000
55	5:20: 0	3.250	842.000	112.00	4.000
56	5:23: 0	3.300	845.000	112.00	3.000
57	5:26: 0	3.350	847.000	112.00	2.000
58	5:29: 0	3.400	848.000	112.00	1.000
59	5:32: 0	3.450	848.000	112.00	0.000
60	5:35: 0	3.500	848.000	112.00	0.000
61	5:38: 0	3.550	848.000	112.00	0.000
62	5:41: 0	3.600	848.000	112.00	0.000
63	5:44: 0	3.650	848.000	112.00	0.000
64	5:47: 0	3.700	848.000	112.00	0.000
65	5:50: 0	3.750	848.000	112.00	0.000
66	5:53: 0	3.800	849.000	112.00	1.000
67	5:56: 0	3.850	849.000	112.00	0.000
68	5:59: 0	3.900	850.000	112.00	1.000
69	6: 2: 0	3.950	850.000	112.00	0.000
70	6: 5: 0	4.000	850.000	112.00	0.000
71	6: 8: 0	4.050	850.000	112.00	0.000
72	6:11: 0	4.100	850.000	112.00	0.000
73	6:14: 0	4.150	850.000	112.00	0.000
74	6:17: 0	4.200	850.000	112.00	0.000
75	6:20: 0	4.250	850.000	112.00	0.000
76	6:23: 0	4.300	850.000	112.00	0.000
77	6:26: 0	4.350	850.000	112.00	0.000
78	6:29: 0	4.400	850.000	112.00	0.000
79	6:32: 0	4.450	850.000	112.00	0.000
80	6:35: 0	4.500	850.000	112.00	0.000
81	6:38: 0	4.550	850.000	112.00	0.000

WESTERN TESTERS INC.

GAS FLOW REPORT

Date : 8-7-86 Ticket # : 11114
 Customer : JAY BOY OIL CO. INC. Lease : HARVEY GRANT FARMS
 Well : #1 Test : 4 Geologist : D. DAVIS
 Elevation (KB) : 1438 Formation : MISS DOLO
 Section : 2 Township : 23S
 Range : 2W County : HARVEY State : KS
 Gauge SN # : 10270 Range : 4150 Clock : 12

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

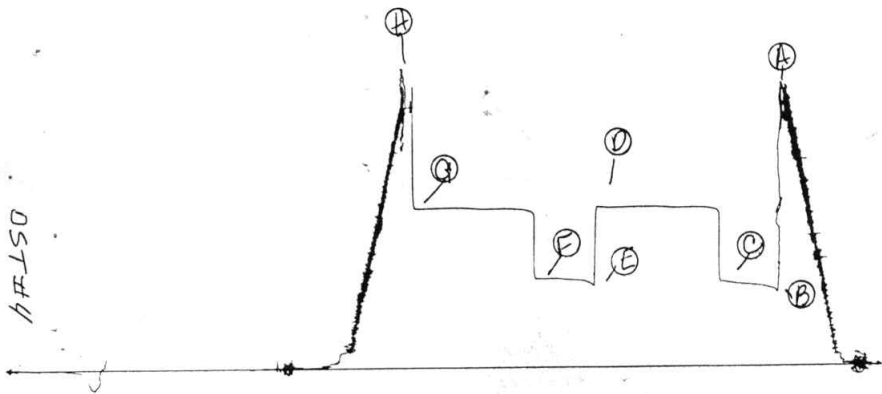
5	MERLA	1.25"	46#	2194000 CFPD
10	MERLA	1.25"	49#	2306000 CFPD
25	MERLA	1.25"	50#	2341000 CFPD
35	MERLA	1.25"	50#	2341000 CFPD
45	MERLA	1.25"	50#	2341000 CFPD

SECOND FLOW

5	MERLA	1.25"	49#	2306000 CFPD
15	MERLA	1.25"	55#	2522000 CFPD
25	MERLA	1.25"	54#	2485000 CFPD
35	MERLA	1.25"	55#	2522000 CFPD
45	MERLA	1.25"	55#	2522000 CFPD

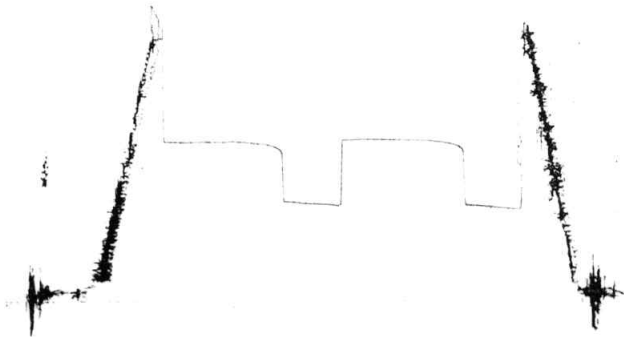
Gas Bottle SN # : 102 147
 Date Bottle Filled : 8-7-86
 Date to be Invoiced : 8-7-86

TK# 11114
I.



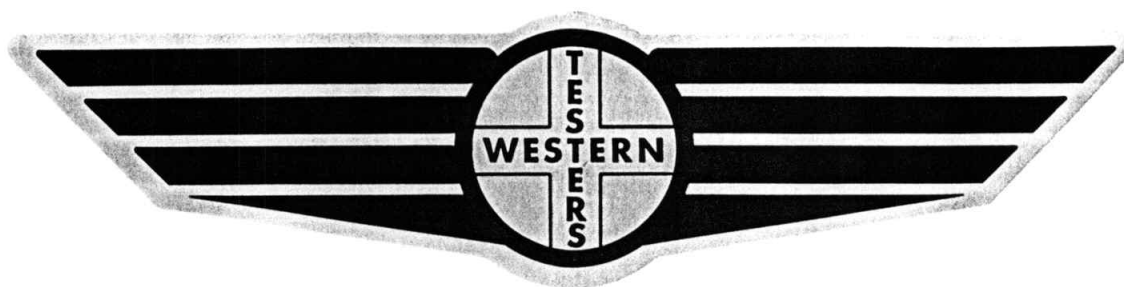
OST#4
16276.

TK# 11114
0.



OST#4
13268

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY Jay Boy Oil Company, Inc. LEASE & WELL NO. Harvey Grant Farms #1 SEC. 2 TWP. 23S RGE. 2W TEST NO. 5 DATE 8-09-86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-9-86
CUSTOMER : JAY BOY OIL CO. INC.
TICKET : 11115
LEASE : HARVEY GRANT FARMS
WELL : #1 TEST: 5
ELEVATION : 1438
SECTION : 2
RANGE : 2W COUNTY : HARVEY
GAUGE SN# : 10270 RANGE : 4150
GEOLOGIST : D. DAVIS
FORMATION : VIOLA
TOWNSHIP : 23S
STATE : KS
CLOCK : 12

INTERVAL FROM : 3331 TO : 3344 TOTAL DEPTH : 3344
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3326 SIZE : 6.63
PACKER DEPTH : 3331 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 9.1 WATER LOSS (CC) : 11.2
CHLORIDES (PPM) : 2000
JARS-MAKE : WTC SERIAL NUMBER : 417
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3184 FT I.D. inch : 3.80
TEST TOOL LENGTH : 27 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 13 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 : WEAK BUILDING TO A STRONG BLOW IN 3 MIN.
BLOW COMMENT #2 : ON INITIAL FLOW PERIOD.
BLOW COMMENT #3 : WEAK BUILDING TO A STRONG BLOW IN 9 MIN.
BLOW COMMENT #4 : ON FINAL FLOW PERIOD.

RECOVERED : 0 FT OF:
RECOVERED : 490 FT OF: CLEAN OIL GRAVITY 29
RECOVERED : 120 FT OF: OIL C/WTRY MUD 11%O 31%W 58%M

Total Barrels Fluid = 7.44
Total Fluid Prod Rate = 178.49 BFPD
Indicated Oil Rate = 147.18 BOPD Indicated Wtr Rate = 29.26
BOPD
Corrected Oil Rate = 141.04 BOPD Corrected Wtr Rate = 28.04
BOPD

REMARK 1 :
REMARK 2 : 60 GAS IN PIPE
REMARK 3 : 14000 PPM CHLORIDES
REMARK 4 :

SET PACKER(S) : 3:00 AM TIME STARTED OFF BOTTOM : 6:00AM
WELL TEMPERATURE : 112
INITIAL HYDROSTATIC PRESSURE (A) 1618
INITIAL FLOW PERIOD MIN: 30 (B) 66 PSI TO (C) : 163
INITIAL CLOSED IN PERIOD MIN: 60 (D) 796
FINAL FLOW PERIOD MIN: 30 (E) 201 PSI TO (F) : 250
FINAL CLOSED IN PERIOD MIN: 63 (G) 740
FINAL HYDROSTATIC PRESSURE (H) 1599

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KS
FIELD : HARVEY GRANT FARMS
WELL : #1
DATE : 8-9-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

60 GAS IN PIPE
14000 PPM CHLORIDES

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 9/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11115
DEPTH : 3344
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3: 0: 0	0.000	66.000	112.00	0.000
2	3: 4: 60	0.083	72.000	112.00	6.000
3	3:10: 1	0.167	93.000	112.00	21.000
4	3:15: 0	0.250	114.000	112.00	21.000
5	3:19: 60	0.333	133.000	112.00	19.000
6	3:25: 1	0.417	147.000	112.00	14.000
7	3:30: 0	0.500	163.000	112.00	16.000
8	3:33: 0	0.550	464.000	112.00	301.000
9	3:36: 0	0.600	516.000	112.00	52.000
10	3:39: 0	0.650	553.000	112.00	37.000
11	3:42: 0	0.700	580.000	112.00	27.000
12	3:45: 0	0.750	607.000	112.00	27.000
13	3:48: 0	0.800	630.000	112.00	23.000
14	3:51: 0	0.850	651.000	112.00	21.000
15	3:54: 0	0.900	670.000	112.00	19.000
16	3:57: 0	0.950	684.000	112.00	14.000
17	4: 0: 0	1.000	701.000	112.00	17.000
18	4: 2: 60	1.050	714.000	112.00	13.000
19	4: 6: 0	1.100	727.000	112.00	13.000
20	4: 9: 0	1.150	738.000	112.00	11.000
21	4:12: 0	1.200	748.000	112.00	10.000
22	4:15: 0	1.250	757.000	112.00	9.000
23	4:18: 0	1.300	767.000	112.00	10.000
24	4:21: 0	1.350	776.000	112.00	9.000
25	4:24: 0	1.400	782.000	112.00	6.000
26	4:27: 0	1.450	790.000	112.00	8.000
27	4:30: 0	1.500	796.000	112.00	6.000
28	4:31: 1	1.517	201.000	112.00	-595.000
29	4:34: 60	1.583	202.000	112.00	1.000
30	4:40: 1	1.667	210.000	112.00	8.000
31	4:45: 0	1.750	220.000	112.00	10.000
32	4:49: 60	1.833	231.000	112.00	11.000
33	4:55: 1	1.917	242.000	112.00	11.000
34	5: 0: 0	2.000	250.000	112.00	8.000
35	5: 3: 0	2.050	460.000	112.00	210.000
36	5: 5: 60	2.100	497.000	112.00	37.000
37	5: 9: 0	2.150	526.000	112.00	29.000
38	5:12: 0	2.200	550.000	112.00	24.000
39	5:15: 0	2.250	570.000	112.00	20.000
40	5:18: 0	2.300	589.000	112.00	19.000
41	5:21: 0	2.350	605.000	112.00	16.000
42	5:24: 0	2.400	620.000	112.00	15.000
43	5:27: 0	2.450	632.000	112.00	12.000
44	5:30: 0	2.500	645.000	112.00	13.000
45	5:33: 0	2.550	659.000	112.00	14.000
46	5:36: 0	2.600	670.000	112.00	11.000
47	5:39: 0	2.650	680.000	112.00	10.000
48	5:42: 0	2.700	690.000	112.00	10.000
49	5:45: 0	2.750	701.000	112.00	11.000
50	5:48: 0	2.800	709.000	112.00	8.000
51	5:51: 0	2.850	716.000	112.00	7.000
52	5:54: 0	2.900	724.000	112.00	8.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 9/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11115
DEPTH : 3344
EVENT :

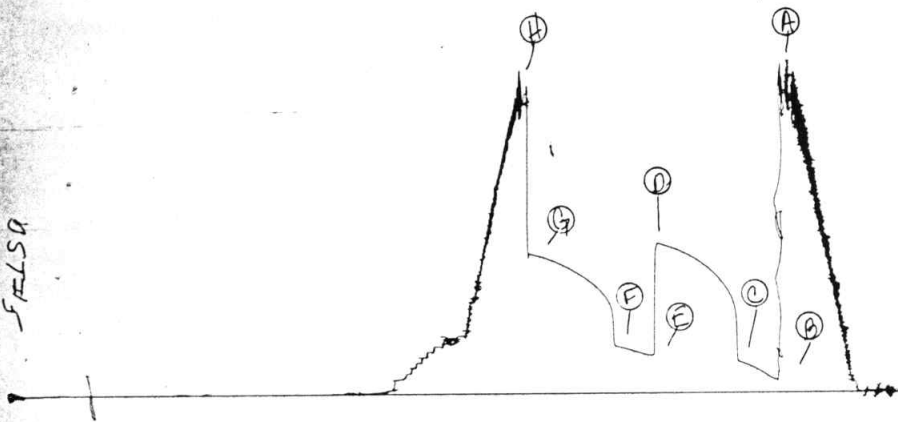
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
53	5:57: 0	2.950	730.000	112.00	6.000
54	6: 0: 0	3.000	736.000	112.00	6.000
55	6: 3: 0	3.050	740.000	112.00	4.000

WESTERN TESTERS INC.

TK# 11115

I.

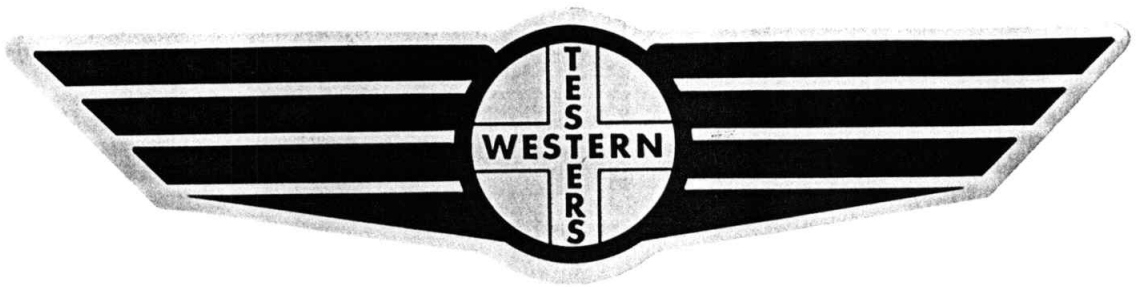
02201
FELSA



TK#11115
①

OST#5
13268

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 8-9-86	TICKET	: 11116		
CUSTOMER	: JAY BOY OIL CO. INC.	LEASE	: HARVEY GRANT FARMS		
WELL	: #1	TEST:	: 6	GEOLOGIST	: D. DAVIS
ELEVATION	: 1438	FORMATION	: VIOLA	TOWNSHIP	: 23S
SECTION	: 2	STATE	: KS	CLOCK	: 12
RANGE	: 2W	COUNTY	: HARVEY		
GAUGE SN#	: 10270	RANGE	: 4150		

INTERVAL FROM	: 3360	TO	: 3370	TOTAL DEPTH	: 3370
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3355	SIZE	: 6.63		
PACKER DEPTH	: 3360	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: ALLEN DRLG	VISCOSITY	: 40
MUD TYPE	: CHEMICAL	WATER LOSS (CC)	: 9.2
WEIGHT	: 9.1	SERIAL NUMBER	: 417
CHLORIDES (PPM)	: 2000	REVERSED OUT ?	: NO
JARS-MAKE	: WTC		
DID WELL FLOW ?	: NO		

DRILL COLLAR LENGTH	: 120	FT	I.D. inch	: 2.20
WEIGHT PIPE LENGTH	: 0	FT	I.D. inch	: 0.00
DRILL PIPE LENGTH	: 3213	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 27	FT	TOOL SIZE	: 5.50
ANCHOR LENGTH	: 10	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 : 2" DECREASING TO 1" WEAK BLOW
 BLOW COMMENT #2 : ON INITIAL FLOW PERIOD.
 BLOW COMMENT #3 : NO BLOW FLUSHED TOOL
 BLOW COMMENT #4 : ON FINAL FLOW PERIOD.

RECOVERED : 20 FT OF: SLI OIL CUT MUD 1% OIL 99% MUD

Total Barrels Fluid	=	0.09		
Total Fluid Prod Rate	=	2.26 BFPD		
Indicated Oil Rate	=	0.23 BOPD	Indicated Wtr Rate	= 1.92
Corrected Oil Rate	=	7.44 BOPD	Corrected Wtr Rate	= 63.20

BWPD

BWPD

REMARK 1 : FLUSHED TOOL 10 MIN. INTO FINAL FLOW PERIOD.
 REMARK 2 : SLID TOOL APPROX. 5' TO BOTTOM AFTER TOOL OPENED.
 REMARK 3 :
 REMARK 4 :

SET PACKER(S)	: 3:30PM	TIME STARTED OFF BOTTOM	: 7:00PM
WELL TEMPERATURE	: 113		
INITIAL HYDROSTATIC PRESSURE		(A)	1657
INITIAL FLOW PERIOD MIN:	30	(B)	43 PSI TO (C) : 43
INITIAL CLOSED IN PERIOD MIN:	60	(D)	979
FINAL FLOW PERIOD MIN:	30	(E)	47 PSI TO (F) : 68
FINAL CLOSED IN PERIOD MIN:	90	(G)	1029
FINAL HYDROSTATIC PRESSURE		(H)	1657

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KS
FIELD : HARVEY GRANT FARMS
WELL : #1
DATE : 8-9-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

FLUSHED TOOL 10 MIN. INTO FINAL FLOW PERIOD.
SLID TOOL APPROX. 5' TO BOTTOM AFTER TOOL OPENED.

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 9/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11116
DEPTH : 3370
EVENT : FLUSHED TOOL 10 MIN. INTO
FINAL FLOW PERIOD.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3:30: 0	0.000	43.000	113.00	0.000
2	3:34:60	0.083	43.000	113.00	0.000
3	3:40: 1	0.167	43.000	113.00	0.000
4	3:45: 0	0.250	43.000	113.00	0.000
5	3:49:60	0.333	43.000	113.00	0.000
6	3:55: 1	0.417	43.000	113.00	0.000
7	4: 0: 0	0.500	43.000	113.00	0.000
8	4: 3: 0	0.550	52.000	113.00	9.000
9	4: 6: 0	0.600	79.000	113.00	27.000
10	4: 9: 0	0.650	141.000	113.00	62.000
11	4:12: 0	0.700	243.000	113.00	102.000
12	4:15: 0	0.750	383.000	113.00	140.000
13	4:18: 0	0.800	502.000	113.00	119.000
14	4:21: 0	0.850	600.000	113.00	98.000
15	4:24: 0	0.900	687.000	113.00	87.000
16	4:27: 0	0.950	746.000	113.00	59.000
17	4:30: 0	1.000	794.000	113.00	48.000
18	4:33: 0	1.050	831.000	113.00	37.000
19	4:36: 0	1.100	865.000	113.00	34.000
20	4:39: 0	1.150	890.000	113.00	25.000
21	4:42: 0	1.200	910.000	113.00	20.000
22	4:45: 0	1.250	927.000	113.00	17.000
23	4:48: 0	1.300	938.000	113.00	11.000
24	4:51: 0	1.350	949.000	113.00	11.000
25	4:54: 0	1.400	963.000	113.00	14.000
26	4:57: 0	1.450	973.000	113.00	10.000
27	5: 0: 0	1.500	979.000	113.00	6.000
28	5: 1: 1	1.517	47.000	113.00	-932.000
29	5: 4:60	1.583	47.000	113.00	0.000
30	5:10: 1	1.667	47.000	113.00	0.000
31	5:15: 0	1.750	68.000	113.00	21.000
32	5:19:60	1.833	68.000	113.00	0.000
33	5:25: 1	1.917	68.000	113.00	0.000
34	5:30: 0	2.000	68.000	113.00	0.000
35	5:33: 0	2.050	72.000	113.00	4.000
36	5:36: 0	2.100	120.000	113.00	48.000
37	5:39: 0	2.150	235.000	113.00	115.000
38	5:42: 0	2.200	441.000	113.00	206.000
39	5:45: 0	2.250	597.000	113.00	156.000
40	5:48: 0	2.300	709.000	113.00	112.000
41	5:51: 0	2.350	780.000	113.00	71.000
42	5:54: 0	2.400	831.000	113.00	51.000
43	5:57: 0	2.450	866.000	113.00	35.000
44	6: 0: 0	2.500	892.000	113.00	26.000
45	6: 3: 0	2.550	912.000	113.00	20.000
46	6: 6: 0	2.600	931.000	113.00	19.000
47	6: 9: 0	2.650	948.000	113.00	17.000
48	6:12: 0	2.700	962.000	113.00	14.000
49	6:15: 0	2.750	970.000	113.00	8.000
50	6:18: 0	2.800	982.000	113.00	12.000
51	6:21: 0	2.850	989.000	113.00	7.000
52	6:24: 0	2.900	994.000	113.00	5.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 9/ 8/86

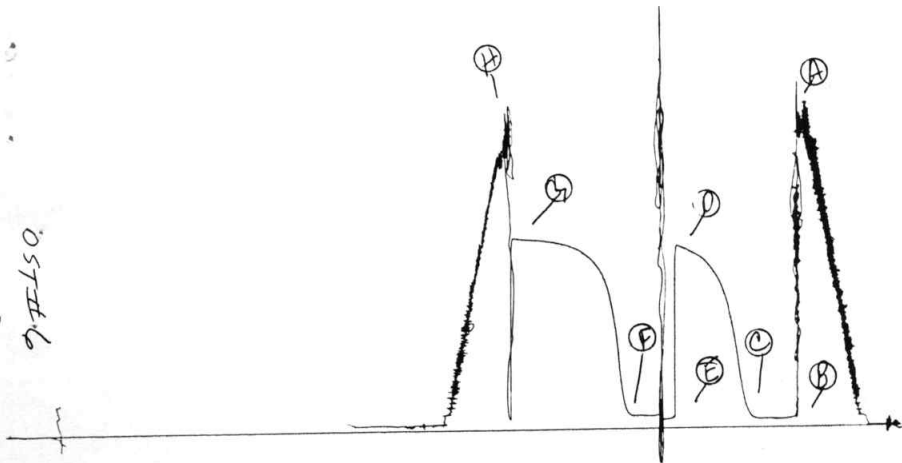
FIELD : HARVEY GRANT FARMS
JOB # : 11116
DEPTH : 3370
EVENT : FLUSHED TOOL 10 MIN. INTO
FINAL FLOW PERIOD.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
53	6:27: 0	2.950	1000.000	113.00	6.000
54	6:30: 0	3.000	1006.000	113.00	6.000
55	6:33: 0	3.050	1010.000	113.00	4.000
56	6:36: 0	3.100	1013.000	113.00	3.000
57	6:39: 0	3.150	1016.000	113.00	3.000
58	6:42: 0	3.200	1018.000	113.00	2.000
59	6:45: 0	3.250	1020.000	113.00	2.000
60	6:48: 0	3.300	1022.000	113.00	2.000
61	6:51: 0	3.350	1024.000	113.00	2.000
62	6:54: 0	3.400	1026.000	113.00	2.000
63	6:57: 0	3.450	1028.000	113.00	2.000
64	7: 0: 0	3.500	1029.000	113.00	1.000

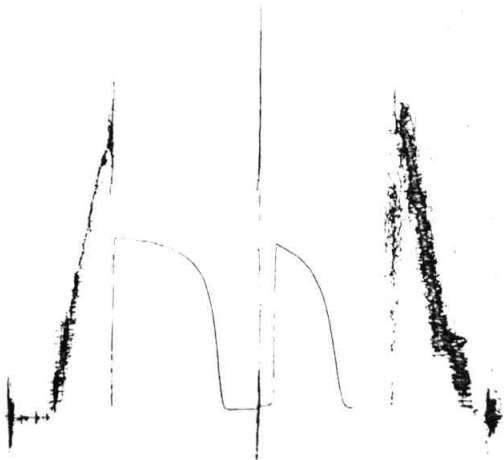
WESTERN TESTERS INC.

Tr# 11116
I.

OST#6
10270



TK+ #11116
0.



OST#6
13268

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY Jay Boy Oil Company, Inc. LEASE & WELL NO. Harvey Grant Farms #1 SEC. 2 TWP. 23S RGE. 2W TEST NO. 7 DATE 8-10-86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 8-10-86
CUSTOMER : JAY BOY OIL CO. INC.
TICKET : 11117
LEASE : HARVEY GRANT FARMS
WELL : #1 TEST: 7
ELEVATION : 1438
SECTION : 2
RANGE : 2W COUNTY : HARVEY
GAUGE SN# : 10270 RANGE : 4150
GEOLOGIST : D. DAVIS
FORMATION : SIMPSON
TOWNSHIP : 23S
STATE : KS
CLOCK : 12

INTERVAL FROM : 3373 TO : 3403 TOTAL DEPTH : 3403
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3368 SIZE : 6.63
PACKER DEPTH : 3373 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRLG
MUD TYPE : CHEMICAL VISCOSITY : 40
WEIGHT : 9.1 WATER LOSS (CC) : 9.6
CHLORIDES (PPM) : 2000
JARS-MAKE : WTC SERIAL NUMBER : 417]
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3226 FT I.D. inch : 3.80
TEST TOOL LENGTH : 27 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 30 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 : WEAK 1/2" BLOW INCREASING TO 2 1/2"
BLOW COMMENT #2 : ON INITIAL FLOW PERIOD.
BLOW COMMENT #3 : WEAK 1" SURFACE BLOW THROUGHOUT
BLOW COMMENT #4 : FINAL FLOW PERIOD.

RECOVERED : 130 FT OF: SLI OIL CUT MUD
RECOVERED : 0 FT OF: 1% OIL 5% WATER 94% MUD

Total Barrels Fluid = 0.70
Total Fluid Prod Rate = 13.52 BFPD
Indicated Oil Rate = 0.10 BOPD Indicated Wtr Rate = 11.96
Corrected Oil Rate = 0.00 BOPD Corrected Wtr Rate = 0.34

REMARK 1 :
REMARK 2 : OPENED TOOL TWICE HAD TO PULL LOOSE AND ADD HEAD JT.
REMARK 3 : TO HIGH TO MAKE CONNECTION FIRST TIME.
REMARK 4 :

SET PACKER(S) : 10:45AM TIME STARTED OFF BOTTOM : 2:30PM
WELL TEMPERATURE : 118
INITIAL HYDROSTATIC PRESSURE (A) 1661
INITIAL FLOW PERIOD MIN: 30 (B) 50 PSI TO (C) : 64
INITIAL CLOSED IN PERIOD MIN: 60 (D) 588
FINAL FLOW PERIOD MIN: 45 (E) 83 PSI TO (F) : 93
FINAL CLOSED IN PERIOD MIN: 90 (G) 572
FINAL HYDROSTATIC PRESSURE (H) 1609

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : JAY BOY OIL CO. INC.
RIG : HARVEY-KS
FIELD : HARVEY GRANT FARMS
WELL : #1
DATE : 8-10-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

OPENED TOOL TWICE HAD TO PULL LOOSE AND ADD HEAD JT.
TO HIGH TO MAKE CONNECTION FIRST TIME.

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 10/ 8/86

FIELD : HARVEY GRANT FARMS
JOB # : 11117
DEPTH : 3403
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	10:45: 0	0.000	50.000	118.00	0.000
2	10:49:60	0.083	50.000	118.00	0.000
3	10:55: 1	0.167	50.000	118.00	0.000
4	11: 0: 0	0.250	53.000	118.00	3.000
5	11: 4:60	0.333	56.000	118.00	3.000
6	11:10: 1	0.417	60.000	118.00	4.000
7	11:15: 0	0.500	64.000	118.00	4.000
8	11:18: 0	0.550	418.000	118.00	354.000
9	11:21: 0	0.600	475.000	118.00	57.000
10	11:24: 0	0.650	504.000	118.00	29.000
11	11:27: 0	0.700	519.000	118.00	15.000
12	11:30: 0	0.750	531.000	118.00	12.000
13	11:33: 0	0.800	539.000	118.00	8.000
14	11:36: 0	0.850	546.000	118.00	7.000
15	11:39: 0	0.900	553.000	118.00	7.000
16	11:42: 0	0.950	559.000	118.00	6.000
17	11:45: 0	1.000	562.000	118.00	3.000
18	11:48: 0	1.050	564.000	118.00	2.000
19	11:51: 0	1.100	566.000	118.00	2.000
20	11:54: 0	1.150	568.000	118.00	2.000
21	11:57: 0	1.200	572.000	118.00	4.000
22	12: 0: 0	1.250	575.000	118.00	3.000
23	12: 3: 0	1.300	578.000	118.00	3.000
24	12: 6: 0	1.350	581.000	118.00	3.000
25	12: 9: 0	1.400	584.000	118.00	3.000
26	12:12: 0	1.450	586.000	118.00	2.000
27	12:15: 0	1.500	588.000	118.00	2.000
28	12:16: 1	1.517	83.000	118.00	-505.000
29	12:19:60	1.583	83.000	118.00	0.000
30	12:25: 1	1.667	83.000	118.00	0.000
31	12:30: 0	1.750	83.000	118.00	0.000
32	12:34:60	1.833	83.000	118.00	0.000
33	12:40: 1	1.917	83.000	118.00	0.000
34	12:45: 0	2.000	86.000	118.00	3.000
35	12:49:60	2.083	89.000	118.00	3.000
36	12:55: 1	2.167	91.000	118.00	2.000
37	13: 0: 0	2.250	93.000	118.00	2.000
38	13: 3: 0	2.300	390.000	118.00	297.000
39	13: 6: 0	2.350	442.000	118.00	52.000
40	13: 9: 0	2.400	470.000	118.00	28.000
41	13:12: 0	2.450	487.000	118.00	17.000
42	13:15: 0	2.500	502.000	118.00	15.000
43	13:18: 0	2.550	508.000	118.00	6.000
44	13:21: 0	2.600	515.000	118.00	7.000
45	13:24: 0	2.650	521.000	118.00	6.000
46	13:27: 0	2.700	525.000	118.00	4.000
47	13:30: 0	2.750	529.000	118.00	4.000
48	13:33: 0	2.800	533.000	118.00	4.000
49	13:36: 0	2.850	539.000	118.00	6.000
50	13:39: 0	2.900	543.000	118.00	4.000
51	13:42: 0	2.950	549.000	118.00	6.000
52	13:45: 0	3.000	553.000	118.00	4.000

COMPANY : JAY BOY OIL CO. INC.
WELL : #1
GAUGE # : 10270
DATE : 10/ 8/86

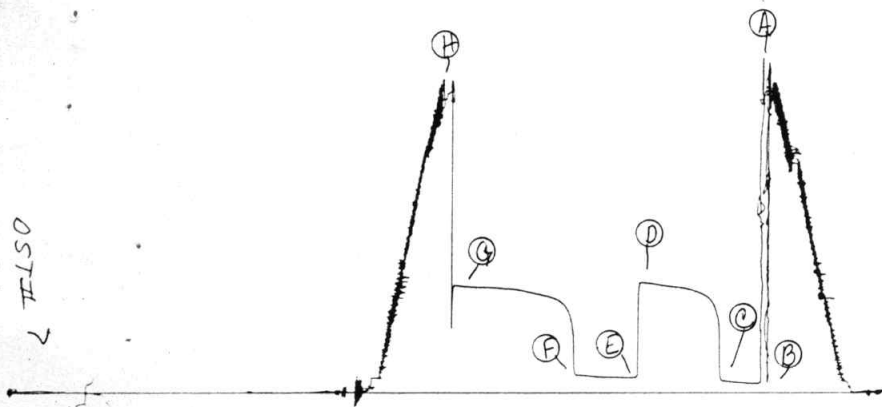
FIELD : HARVEY GRANT FARMS
JOB # : 11117
DEPTH : 3403
EVENT :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	13:48: 0	3.050	555.000	118.00	2.000
54	13:51: 0	3.100	557.000	118.00	2.000
55	13:54: 0	3.150	559.000	118.00	2.000
56	13:57: 0	3.200	561.000	118.00	2.000
57	14: 0: 0	3.250	562.000	118.00	1.000
58	14: 3: 0	3.300	563.000	118.00	1.000
59	14: 6: 0	3.350	564.000	118.00	1.000
60	14: 9: 0	3.400	565.000	118.00	1.000
61	14:12: 0	3.450	566.000	118.00	1.000
62	14:15: 0	3.500	567.000	118.00	1.000
63	14:18: 0	3.550	568.000	118.00	1.000
64	14:21: 0	3.600	569.000	118.00	1.000
65	14:24: 0	3.650	570.000	118.00	1.000
66	14:27: 0	3.700	571.000	118.00	1.000
67	14:30: 0	3.750	572.000	118.00	1.000

WESTERN TESTERS INC.

TKt # 11117
I.

0220
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TKT# 11117
O.

81221
27LSA

