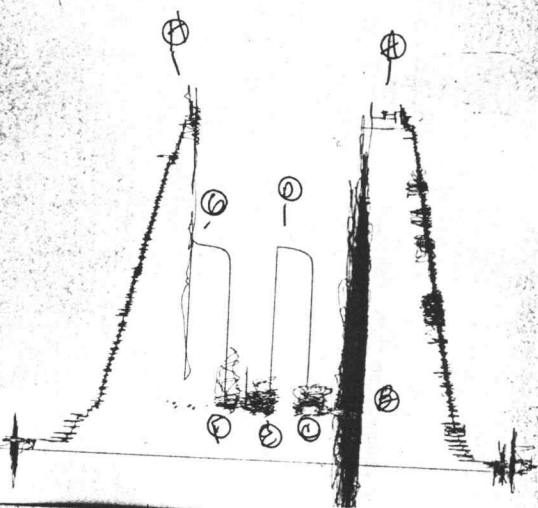


Sk # 13875

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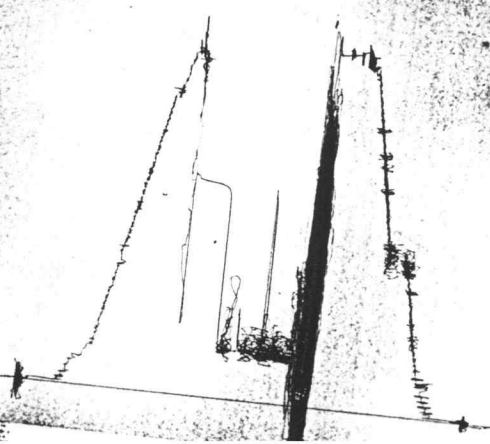
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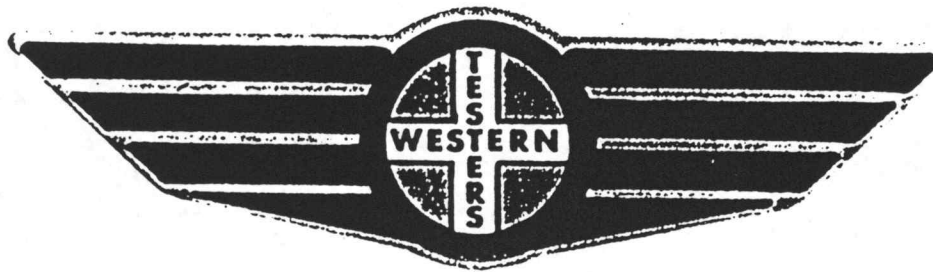
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05-24-1
10270



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HESS OIL COMPANY

LEASE & WELL NO.

SCHMIDT #1

SEC. 22

TWP.

20S

RGE.

15W

TEST NO.

1

DATE

6/15/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 6-15-88
CUSTOMER : HESS OIL COMPANY
WELL : #1 TEST: 1
ELEVATION : NA
SECTION : 22
RANGE : 15W COUNTY : BARTON
GAUGE SN# : 13268 RANGE : 4225
TICKET : 13875
LEASE : SCHMIDT
GEOLOGIST : J HESS
FORMATION : ARBUCKLE
TOWNSHIP : 20S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3640 TO : 3660 TOTAL DEPTH : 3660
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3635 SIZE : 6.63
PACKER DEPTH : 3640 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG 1
MUD TYPE : STARCH VISCOSITY : 44
WEIGHT : 9.5 WATER LOSS (CC) : 9.2
CHLORIDES (PPM) : NA
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3316 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 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-STRONG BLOW THROUGHOUT.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW THROUGHOUT-1/4" BUILT TO 1 1/2".
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 310 FT OF: WATER CUT MUD
40% WATER-60% MUD

RECOVERED : 120 FT OF: WATER

CHLORIDES: 34000 PPM

Total Barrels Fluid = 3.23
Total Fluid Prod Rate = 71.64 BFPD
Indicated Wtr Rate = 45.82 BWPD

REMARK 1 : MISRUN-FLOWS PLUGGED

REMARK 2 : LOST SOME FLUID IN HOLE WHEN TOOL FIRST OPENED-BOTTOM
4' OF ANCHOR WAS PLUGGED WITH HULLS.

REMARK 3 :

REMARK 4 :

SET PACKER(S) : 10:15 PM

TIME STARTED OFF BOTTOM : 12:15 AM

WELL TEMPERATURE : 118

INITIAL HYDROSTATIC PRESSURE

(A) 1946

INITIAL FLOW PERIOD MIN: 35

(B) 273 PSI TO (C) : 273

INITIAL CLOSED IN PERIOD MIN: 27

(D) 1189

FINAL FLOW PERIOD MIN: 30

(E) 303 PSI TO (F) : 303

FINAL CLOSED IN PERIOD MIN: 33

(G) 1209

FINAL HYDROSTATIC PRESSURE

(H) 1935

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HESS OIL COMPANY
RIG : BARTON-KANSAS
FIELD : SCHMIDT
WELL : #1
DATE : 6-15-88
GAUGE NO : 13268

OPERATIONAL COMMENTS

MISRUN-FLOWS PLUGGED
LOST SOME FLUID IN HOLE WHEN TOOL FIRST OPENED-BOTTOM
4' OF ANCHOR WAS PLUGGED WITH HULLS.

COMPANY : HESS OIL COMPANY
 WELL : #1
 GAUGE # : 13268
 DATE : 15/ 6/88

FIELD : SCHMIDT
 JOB # : 13875
 DEPTH : 3660
 TEST : MISRUN-FLOWS PLUGGED

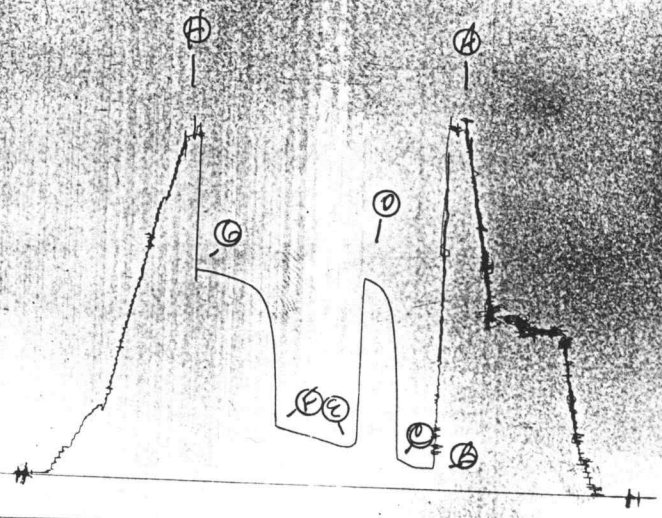
| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P Pi-P(i-1) |
|----------|--------------------|-------------------------|---------------|------------|-------------------|
| 1 | 10:15:0 | 0.000 | 273.000 | 118.00 | 0.000 |
| 2 | 10:19:59 | 0.083 | 273.000 | 118.00 | 0.000 |
| 3 | 10:25:0 | 0.167 | 273.000 | 118.00 | 0.000 |
| 4 | 10:30:0 | 0.250 | 273.000 | 118.00 | 0.000 |
| 5 | 10:34:59 | 0.333 | 273.000 | 118.00 | 0.000 |
| 6 | 10:40:0 | 0.417 | 273.000 | 118.00 | 0.000 |
| 7 | 10:45:0 | 0.500 | 273.000 | 118.00 | 0.000 |
| 8 | 10:49:59 | 0.583 | 273.000 | 118.00 | 0.000 |
| 9 | 10:52:59 | 0.633 | 1155.000 | 118.00 | 882.000 |
| 10 | 10:55:59 | 0.683 | 1168.000 | 118.00 | 13.000 |
| 11 | 10:58:59 | 0.733 | 1177.000 | 118.00 | 9.000 |
| 12 | 11:01:59 | 0.783 | 1183.000 | 118.00 | 6.000 |
| 13 | 11:04:59 | 0.833 | 1186.000 | 118.00 | 3.000 |
| 14 | 11:07:59 | 0.883 | 1189.000 | 118.00 | 3.000 |
| 15 | 11:10:59 | 0.933 | 1189.000 | 118.00 | 0.000 |
| 16 | 11:13:59 | 0.983 | 1189.000 | 118.00 | 0.000 |
| 17 | 11:16:59 | 1.033 | 1189.000 | 118.00 | 0.000 |
| 18 | 11:18:0 | 1.050 | 303.000 | 118.00 | -886.000 |
| 19 | 11:21:59 | 1.117 | 303.000 | 118.00 | 0.000 |
| 20 | 11:26:59 | 1.200 | 303.000 | 118.00 | 0.000 |
| 21 | 11:31:59 | 1.283 | 303.000 | 118.00 | 0.000 |
| 22 | 11:36:59 | 1.367 | 303.000 | 118.00 | 0.000 |
| 23 | 11:41:59 | 1.450 | 303.000 | 118.00 | 0.000 |
| 24 | 11:46:59 | 1.533 | 303.000 | 118.00 | 0.000 |
| 25 | 11:49:59 | 1.583 | 986.000 | 118.00 | 683.000 |
| 26 | 11:52:59 | 1.633 | 1146.000 | 118.00 | 160.000 |
| 27 | 11:55:59 | 1.683 | 1165.000 | 118.00 | 19.000 |
| 28 | 11:58:59 | 1.733 | 1171.000 | 118.00 | 6.000 |
| 29 | 12:01:59 | 1.783 | 1176.000 | 118.00 | 5.000 |
| 30 | 12:04:59 | 1.833 | 1178.000 | 118.00 | 2.000 |
| 31 | 12:07:59 | 1.883 | 1181.000 | 118.00 | 3.000 |
| 32 | 12:10:59 | 1.933 | 1185.000 | 118.00 | 4.000 |
| 33 | 12:13:59 | 1.983 | 1187.000 | 118.00 | 2.000 |
| 34 | 12:16:59 | 2.033 | 1200.000 | 118.00 | 13.000 |
| 35 | 12:19:59 | 2.083 | 1209.000 | 118.00 | 9.000 |

WESTERN TESTING CO. INC.

It # 14501

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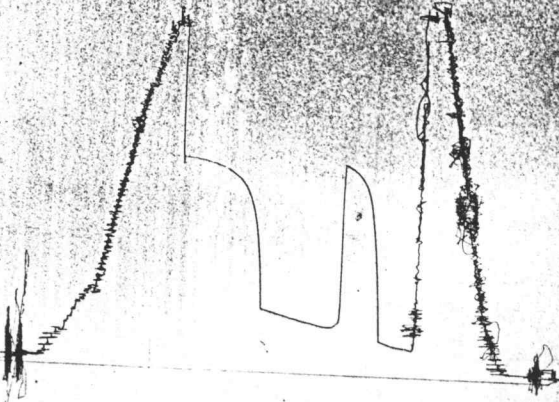
OST# 2
10270



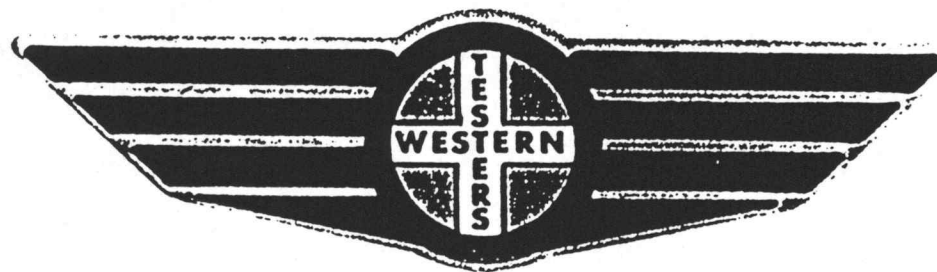
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OST# 2
13268



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY HESS OIL COMPANY

LEASE & WELL NO.

SCHMIDT #1

SEC. 22

TWP.

20S

RGE.

15W

TEST NO.

2

DATE

6/16/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 6-16-88 TICKET : 14501
CUSTOMER : HESS OIL COMPANY LEASE : SCHMIDT
WELL : #1 TEST: 2 GEOLOGIST : J. HESS
ELEVATION : NA FORMATION : ARBUCKLE
SECTION : 22 TOWNSHIP : 20S
RANGE : 15W COUNTY : BARTON STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3688 TO : 3700 TOTAL DEPTH : 3700
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3683 SIZE : 6.63
PACKER DEPTH : 3688 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG 1
MUD TYPE : STARCH VISCOSITY : 35
WEIGHT : 9.5 WATER LOSS (CC) : 14
CHLORIDES (PPM) : NA
JARS-MAKE : SERIAL NUMBER :
DID WELL FLOW ? : GAS REVERSED OUT ? : -

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3364 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 12 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-STRONG BLOW-GAS TO SURFACE IN 14 MINUTES
BLOW COMMENT #2 : SEE ATTACHED FLOW CHART.
BLOW COMMENT #3 :
BLOW COMMENT #4 : FINAL FLOW-GAS TO SURFACE.

RECOVERED : 95 FT OF: MUDDY GASSY OIL
10% MUD-6% WTR-28% GAS-46% OIL
RECOVERED : 120 FT OF: GASSY WATER CUT OIL
30% WATER-35% GAS-35% OIL
RECOVERED : 120 FT OF: HEAVY OIL CUT WATER
10% OIL-90% WATER
RECOVERED : 360 FT OF: WATER / WITH SCUM OF OIL THROUGHOUT

CHLORIDES: 28000 PPM

Total Barrels Fluid = 6.95
Total Fluid Prod Rate = 111.21 BFPD
Indicated Oil Rate = 15.68 BOPD
Indicated Wtr Rate = 81.61 BWPD

REMARK 1 :
REMARK 2 : SLID APPROXIMATELY 4 FEET OT BOTTOM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 11:05 AM TIME STARTED OFF BOTTOM : 2:05 PM
WELL TEMPERATURE : 118
INITIAL HYDROSTATIC PRESSURE (A) 1973
INITIAL FLOW PERIOD MIN: 30 (B) 118 PSI TO (C) : 160
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1142
FINAL FLOW PERIOD MIN: 60 (E) 220 PSI TO (F) : 315
FINAL CLOSED IN PERIOD MIN: 63 (G) 1159
FINAL HYDROSTATIC PRESSURE (H) 1932

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : HESS OIL COMPANY
RIG : BARTON-KANSAS
FIELD : SCHMIDT
WELL : #1
DATE : 6-16-88
GAUGE NO : 10270

OPERATIONAL COMMENTS

SLID APPROXIMATELY 4 FEET OT BOTTOM

COMPANY : HESS OIL COMPANY
 WELL : #1
 GAUGE # : 10270
 DATE : 16/ 6/88

FIELD : SCHMIDT
 JOB # : 14501
 DEPTH : 3700
 TEST :

| DATA No. | REAL TIME HR:MN:SS | ELAPSE TIME DELTA HOURS | PRESSURE PSIG | TEMP DEG F | DELTA P $P_i - P_{(i-1)}$ |
|----------|--------------------|-------------------------|---------------|------------|---------------------------|
| 1 | 11: 5: 0 | 0.000 | 118.000 | 118.00 | 0.000 |
| 2 | 11: 9:59 | 0.083 | 118.000 | 118.00 | 0.000 |
| 3 | 11:15: 0 | 0.167 | 118.000 | 118.00 | 0.000 |
| 4 | 11:20: 0 | 0.250 | 120.000 | 118.00 | 2.000 |
| 5 | 11:24:59 | 0.333 | 139.000 | 118.00 | 19.000 |
| 6 | 11:30: 0 | 0.417 | 155.000 | 118.00 | 16.000 |
| 7 | 11:35: 0 | 0.500 | 160.000 | 118.00 | 5.000 |
| 8 | 11:38: 0 | 0.550 | 545.000 | 118.00 | 385.000 |
| 9 | 11:41: 0 | 0.600 | 806.000 | 118.00 | 261.000 |
| 10 | 11:44: 0 | 0.650 | 949.000 | 118.00 | 143.000 |
| 11 | 11:47: 0 | 0.700 | 1024.000 | 118.00 | 75.000 |
| 12 | 11:50: 0 | 0.750 | 1064.000 | 118.00 | 40.000 |
| 13 | 11:53: 0 | 0.800 | 1092.000 | 118.00 | 28.000 |
| 14 | 11:56: 0 | 0.850 | 1112.000 | 118.00 | 20.000 |
| 15 | 11:59: 0 | 0.900 | 1123.000 | 118.00 | 11.000 |
| 16 | 12: 2: 0 | 0.950 | 1138.000 | 118.00 | 15.000 |
| 17 | 12: 5: 0 | 1.000 | 1142.000 | 118.00 | 4.000 |
| 18 | 12: 6: 0 | 1.017 | 220.000 | 118.00 | -922.000 |
| 19 | 12: 9:59 | 1.083 | 220.000 | 118.00 | 0.000 |
| 20 | 12:15: 0 | 1.167 | 220.000 | 118.00 | 0.000 |
| 21 | 12:20: 0 | 1.250 | 227.000 | 118.00 | 7.000 |
| 22 | 12:24:59 | 1.333 | 241.000 | 118.00 | 14.000 |
| 23 | 12:30: 0 | 1.417 | 250.000 | 118.00 | 9.000 |
| 24 | 12:35: 0 | 1.500 | 259.000 | 118.00 | 9.000 |
| 25 | 12:39:59 | 1.583 | 272.000 | 118.00 | 13.000 |
| 26 | 12:45: 0 | 1.667 | 278.000 | 118.00 | 6.000 |
| 27 | 12:50: 0 | 1.750 | 287.000 | 118.00 | 9.000 |
| 28 | 12:54:59 | 1.833 | 296.000 | 118.00 | 9.000 |
| 29 | 13: 0: 0 | 1.917 | 307.000 | 118.00 | 11.000 |
| 30 | 13: 5: 0 | 2.000 | 315.000 | 118.00 | 8.000 |
| 31 | 13: 8: 0 | 2.050 | 661.000 | 118.00 | 346.000 |
| 32 | 13:11: 0 | 2.100 | 837.000 | 118.00 | 176.000 |
| 33 | 13:14: 0 | 2.150 | 932.000 | 118.00 | 95.000 |
| 34 | 13:17: 0 | 2.200 | 992.000 | 118.00 | 60.000 |
| 35 | 13:20: 0 | 2.250 | 1027.000 | 118.00 | 35.000 |
| 36 | 13:23: 0 | 2.300 | 1052.000 | 118.00 | 25.000 |
| 37 | 13:26: 0 | 2.350 | 1072.000 | 118.00 | 20.000 |
| 38 | 13:29: 0 | 2.400 | 1085.000 | 118.00 | 13.000 |
| 39 | 13:32: 0 | 2.450 | 1093.000 | 118.00 | 8.000 |
| 40 | 13:35: 0 | 2.500 | 1103.000 | 118.00 | 10.000 |
| 41 | 13:38: 0 | 2.550 | 1112.000 | 118.00 | 9.000 |
| 42 | 13:41: 0 | 2.600 | 1118.000 | 118.00 | 6.000 |
| 43 | 13:44: 0 | 2.650 | 1126.000 | 118.00 | 8.000 |
| 44 | 13:47: 0 | 2.700 | 1132.000 | 118.00 | 6.000 |
| 45 | 13:50: 0 | 2.750 | 1138.000 | 118.00 | 6.000 |
| 46 | 13:53: 0 | 2.800 | 1142.000 | 118.00 | 4.000 |
| 47 | 13:56: 0 | 2.850 | 1147.000 | 118.00 | 5.000 |
| 48 | 13:59: 0 | 2.900 | 1151.000 | 118.00 | 4.000 |
| 49 | 14: 2: 0 | 2.950 | 1155.000 | 118.00 | 4.000 |
| 50 | 14: 5: 0 | 3.000 | 1157.000 | 118.00 | 2.000 |
| 51 | 14: 8: 0 | 3.050 | 1159.000 | 118.00 | 2.000 |

GAS FLOW REPORT

| | |
|---|--------------------|
| Date : 6-16-88 | Ticket # : 14501 |
| Customer : HESS OIL COMPANY | Lease : SCHMIDT |
| Well : #1 Test : 2 | Geologist : J HESS |
| Elevation (KB) : NA Formation : ARBUCKLE | |
| Section : 22 Township : 20S | |
| Range : 15W County : BARTON | State : KANSAS |
| Gauge SN # : 10270 Range : 4150 | Clock : 12 |

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

PRE FLOW

=====

| | | | | |
|----|-------|------|-----|-------------------|
| 15 | MERLA | 1/2" | 4 " | of WTR 12500 CFPD |
| 25 | | 1/4" | 4 | 3370 CFPD |
| 30 | | 1/4" | 2 | 2370 CFPD |

SECOND FLOW

=====

| | | | | |
|----|-------|------|-----|-------------------|
| 5 | MERLA | 1/2" | 3 " | of WTR 10900 CFPD |
| 15 | | | 3 | 10900 CFPD |
| 25 | | | 3 | 10900 CFPD |
| 35 | | | 2 | 8870 CFPD |
| 45 | | | 2 | 8870 CFPD |
| 55 | | | 2 | 8870 CFPD |

Gas Bottle SN # : 20 GB
 Date Bottle Filled : 6-16-88
 Date to be Invoiced :