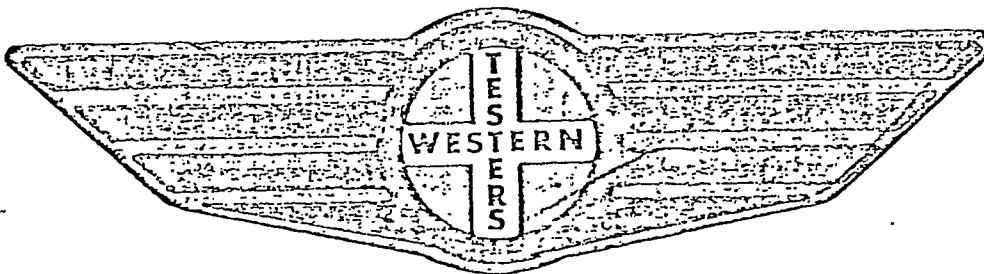


# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

tick # 5438

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2605

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(A)

(A)

(G)

(D)

(F)

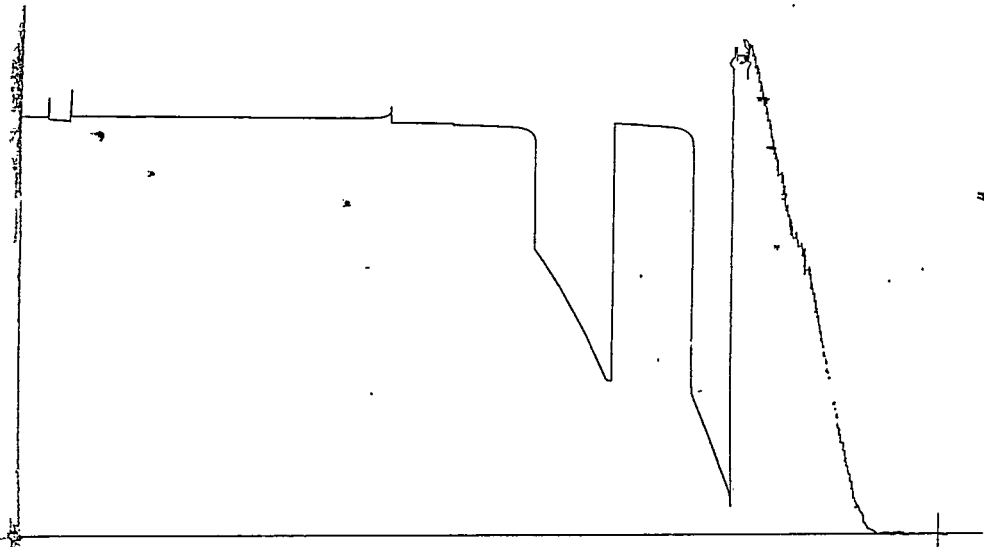
(E)

(C)

(B)

TK<sup>tt</sup> 5438

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WESTERN TESTING COMPANY CO.  
SUBSURFACE PRESSURE SURVEY

DATE: 2/24/84  
CUSTOMER: KENNEDY - MITCHELL INC.  
WELL: 54-665 TEST: 1  
ELEVATION (KB): 1216 FORMATION: ARB.  
SECTION: 36 TOWNSHIP: 31S  
RANGE: 1E COUNTY: SUMNER STATE: KANSAS  
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

TICKET #5438

LEASE: AST

GEOLOGIST: H.H.

INTERVAL TEST FROM: 3900 FT TO: 3980 FT TOTAL DEPTH: 3980 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3900 FT SIZE: 6 3/4 IN Packer DEPTH: 3895 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: MCALISTER  
MUD TYPE: CHEM VISCOSITY: 40  
WEIGHT: 9.2 WATER LOSS (CC): 13.4  
CHLORIDES (P.P.M.): 5600  
JARS - MAKE: W.T.C. SERIAL NUMBER: 407  
DID WELL FLOW? NO REVERSED OUT? YES

DRILL COLLAR LENGTH: 300 FTA I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FTA I.D.: IN  
DRILL PIPE LENGTH: 3575 FTA I.D.: 3.8 IN  
TEST TOOL LENGTH: 25 FTA TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 80 FTA SIZE: 5 1/2 O.D. IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: GOOD BLOW THROUGHOUT TEST.

RECOVERED: 2900 FT OF: SALT WATER, CHLORIDES 43000 P.P.M.  
RECOVERED: FT OF:  
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REMARKS: MANDREL BROKE, SHUT IN TOOL..

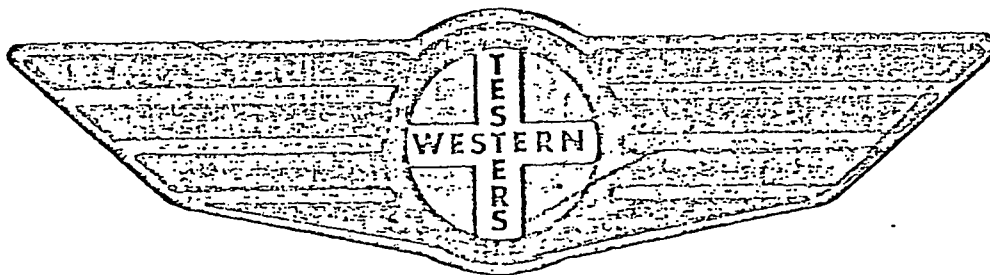
TIME SET PACKER(S): 7:05 P.M. TIME STARTED OFF BOTTOM: 10:35 P.M.  
WELL TEMPERATURE: 121 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1865 PSI  
INITIAL FLOW PERIOD MIN: 35 (B) 129 PSI TO (C) 529 PSI  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1598 PSI  
FINAL FLOW PERIOD MIN: 60 (E) 596 PSI TO (F) 1063 PSI  
FINAL CLOSED IN PERIOD MIN: 60 (G) 1587 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1865 PSI



FORMATION

TEST

REPORT



Home Office:

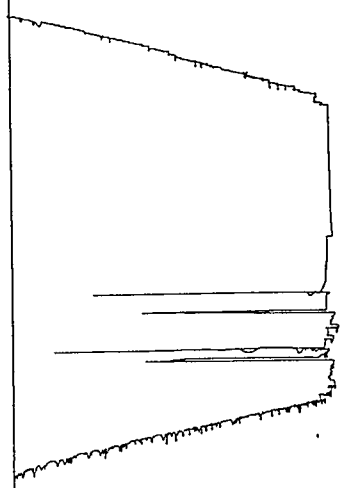
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

+CE# 5439

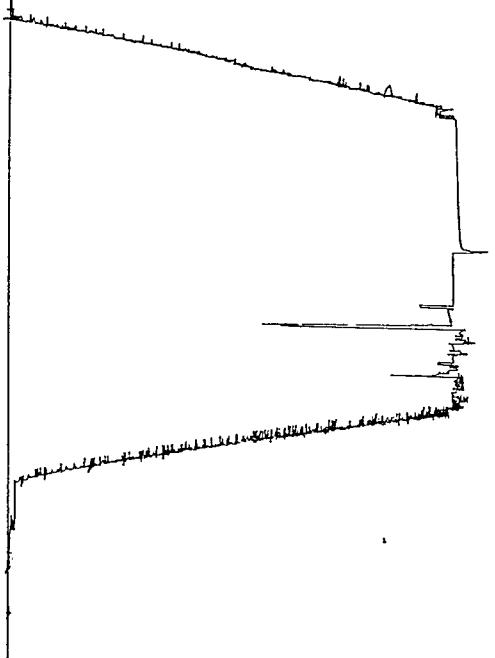
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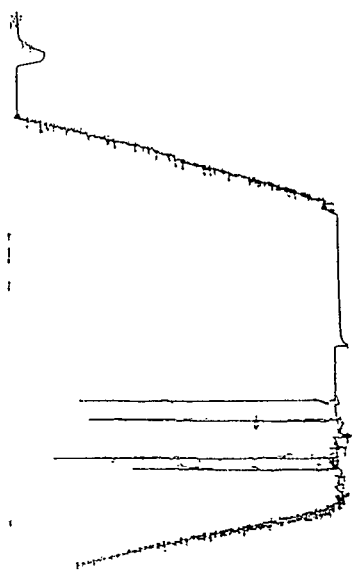
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DST#2

WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 2/26/84  
CUSTOMER: KENNEDY - MITCHELL INC.  
WELL: 54-665  
ELEVATION (KB): 1216  
SECTION: 36  
RANGE: 1E  
GAUGE SN #2605  
TICKET #5439  
LEASE: AST  
GEOLOGIST: H.H.  
TEST: 2  
FORMATION: MISS.  
TOWNSHIP: 31S  
COUNTY: SUMNER  
STATE: KANSAS  
RANGE: 4150  
CLOCK: 12

INTERVAL TEST FROM: 3496 FT TO: 3520 FT TOTAL DEPTH: 3980 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3491 FT SIZE: 6 3/4 IN PACKER DEPTH: 3196 FT SIZE: 6 3/4 IN  
PACKER DEPTH: 3520 FT SIZE: 6 3/4 IN PACKER DEPTH: 3525 FT SIZE: 6 3/4 IN

DRILLING CONTRACTOR: MCALISTER  
MUD TYPE: CHEM VISCOSITY: 40  
WEIGHT: 9.3 WATER LOSS (CC): 17.0  
CHLORIDES (P.P.M.): 8000  
JARS - MAKE: W.T.C. SERIAL NUMBER: 407  
DID WELL FLOW? NO REVERSED OUT? YES  
DRILL COLLAR LENGTH: FT I.D.: IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 3471 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 26 FT SIZE: 5 1/2 O.D. IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW:

RECOVERED: 450 FT OF: MUD.  
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REMARKS: MISS RUN PACKER SEAT FAILURE.  
SET HOOK 4 SEPARATE TIMES PACKER  
WOULD NOT HOLD.

TIME SET PACKER(S): TIME STARTED OFF BOTTOM:  
WELL TEMPERATURE: 0 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1731 PSI  
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI  
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI  
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI  
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1692 PSI

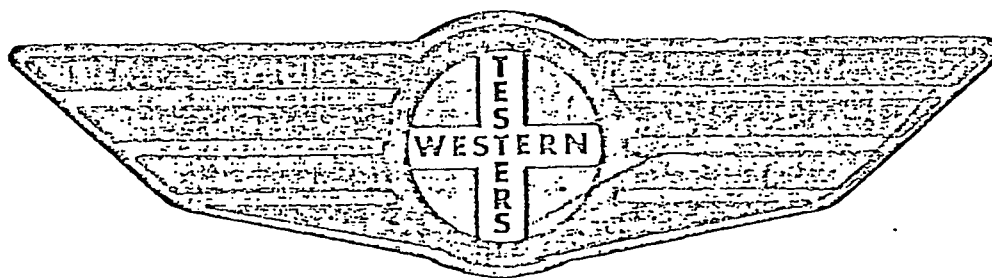




# FORMATION

## TEST

## REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company

KENNEDY & MITCHELL, INC.

Lease and Well No.

#54-665 AST

Sec. 36

Twp. 31S

Rge. 1E

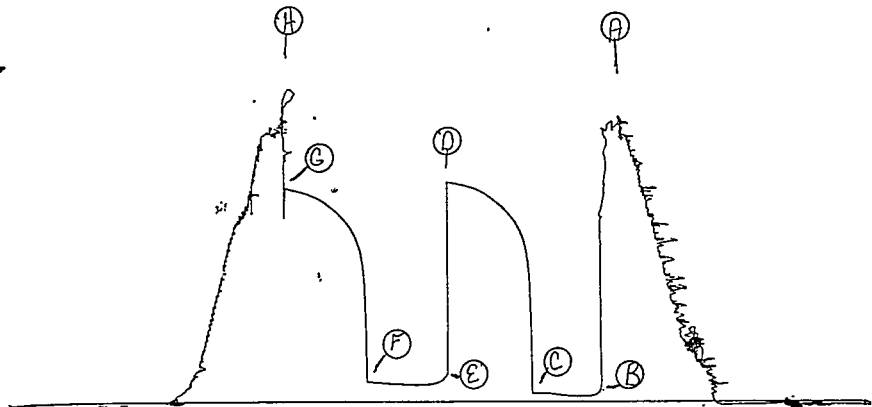
Test No. 3

Date 2/26/84

TKT# 5440

2605  
DSF # 13

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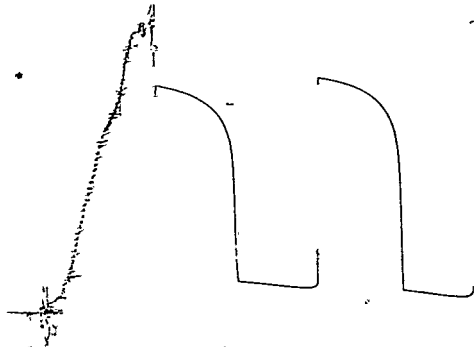
TKT#5440

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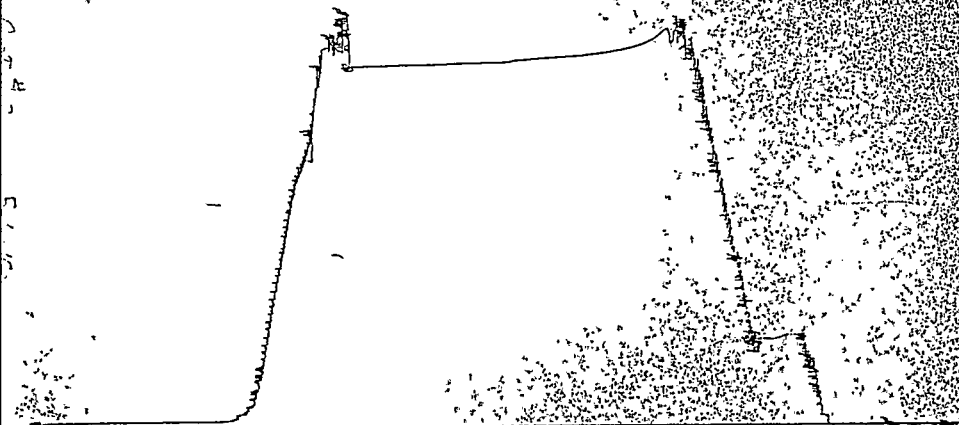
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TKT # 5440

BELOW STRADDLE



WESTERN TESTING COMPANY INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 2/26/84  
CUSTOMER: KENNEDY & MITCHELL INC.  
WELL: 54-665 TEST: 3  
ELEVATION (KB): 1216 FORMATION: LANSING  
SECTION: 36 TOWNSHIP: 31S  
RANGE: 1E COUNTY: SUMNER STATE: KANSAS  
GAUGE SN #2605 RANGE: 4250 CLOCK: 12

TICKET #5440  
LEASE: AST  
GEOLOGIST: H.H.

INTERVAL TEST FROM: 3030 FT TO: 3070 FT TOTAL DEPTH: 3980 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3025 FT SIZE: 6 3/4 IN PAKER DEPTH: 3030 FT SIZE: 6 3/4 IN  
PACKER DEPTH: 3075 FT SIZE: 6 3/4 IN PAKER DEPTH: 3070 FT SIZE: 6 3/4 IN

DRILLING CONTRACTOR: MCALISTER  
MUD TYPE: CHEM VISCOSITY: 40  
WEIGHT: 9.8 WATER LOSS (CC): 17.0  
CHLORIDES (P.P.M.): 8000  
JARS - MAKE: W.T.C. SERIAL NUMBER: 407  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: FT I.D.: IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 3005 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 40 FT SIZE: 5 1/2 O.D. IN  
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN  
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: FAIR BLOW THROUGHOUT TEST.

RECOVERED: 240 FT OF: SALT WATER. CHLORIDES 32000 P.P.M.  
RECOVERED: FT OF:  
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REMARKS:

16,000 PPM Chlorides .8058 Resistivity  
24,000 PPM Chlorides 32.058 Resistivity

TIME SET PACKER(S): 10:00 P.M. TIME STARTED OFF BOTTOM: 2:00 A.M.  
WELL TEMPERATURE: 0 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1463 PSI  
INITIAL FLOW PERIOD MIN: 60 (B) 30 PSI TO (C) 45 PSI  
INITIAL CLOSED IN PERIOD MIN: 63 (D) 1171 PSI  
FINAL FLOW PERIOD MIN: 60 (E) 87 PSI TO (F) 105 PSI  
FINAL CLOSED IN PERIOD MIN: 63 (G) 1142 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1448 PSI

WESTERN TESTING COMPANY, INC.  
PRESSURE DATA

|                                   |                |                    |
|-----------------------------------|----------------|--------------------|
| DATE: 2/26/84                     |                | TICKET #5440       |
| CUSTOMER: KENNEDY & MITCHELL INC. |                | LEASE: AST         |
| WELL: 54-665                      | TEST: 3        | GEOLOGIST: H.H.    |
| ELEVATION (KB): 1216              |                | FORMATION: LANSING |
| SECTION: 36                       |                | TOWNSHIP: 31S      |
| RANGE: 1E                         | COUNTY: SUMNER | STATE: KANSAS      |
| GAUGE SN #2605                    | RANGE: 4250    | CLOCK: 12          |

|                       |                               |      |     |
|-----------------------|-------------------------------|------|-----|
| (A)                   | INITIAL HYDROSTATIC PRESSURE: | 1463 | PSI |
| (B)                   | FIRST INITIAL FLOW PRESSURE:  | 30   | PSI |
| (C)                   | FIRST FINAL FLOW PRESSURE:    | 45   | PSI |
| (D)                   | INITIAL CLOSED-IN PRESSURE:   | 1171 | PSI |
| (E)                   | SECOND INITIAL FLOW PRESSURE: | 87   | PSI |
| (F)                   | SECOND FINAL FLOW PRESSURE:   | 105  | PSI |
| (G)                   | FINAL CLOSED-IN PRESSURE:     | 1142 | PSI |
| (H)                   | FINAL HYDROSTATIC PRESSURE:   | 1448 | PSI |
| WELL TEMPERATURE:     |                               | 0    | 'F  |
| OPEN TOOL: 10:00 P.M. |                               |      |     |

|                             | TIME - GIVEN | TIME - ACTUAL |
|-----------------------------|--------------|---------------|
| FIRST FLOW PRESSURE:        | 60 MIN       | 60 MIN        |
| INITIAL CLOSED-IN PRESSURE: | 60 MIN       | 63 MIN        |
| SECOND FLOW PRESSURE:       | 60 MIN       | 60 MIN        |
| FINAL CLOSED-IN PRESSURE:   | 60 MIN       | 63 MIN        |

### PRESSURE BREAKDOWN

| PT | FIRST FLOW |          | INITIAL SHUT-IN |          | SECOND FLOW |          | FINAL SHUT-IN |          |
|----|------------|----------|-----------------|----------|-------------|----------|---------------|----------|
|    | MIN        | PRESSURE | MIN             | PRESSURE | MIN         | PRESSURE | MIN           | PRESSURE |
| 1  | 0          | 30       | 0               | 45       | 0           | 87       | 0             | 105      |
| 2  | 5          | 30       | 3               | 665      | 5           | 87       | 3             | 639      |
| 3  | 10         | 30       | 6               | 814      | 10          | 87       | 6             | 791      |
| 4  | 15         | 30       | 9               | 887      | 15          | 87       | 9             | 861      |
| 5  | 20         | 30       | 12              | 932      | 20          | 87       | 12            | 906      |
| 6  | 25         | 31       | 15              | 970      | 25          | 87       | 15            | 941      |
| 7  | 30         | 36       | 18              | 997      | 30          | 87       | 18            | 968      |
| 8  | 35         | 41       | 21              | 1022     | 35          | 91       | 21            | 993      |
| 9  | 40         | 43       | 24              | 1043     | 40          | 94       | 24            | 1013     |
| 10 | 45         | 45       | 27              | 1062     | 45          | 97       | 27            | 1032     |
| 11 | 50         | 45       | 30              | 1079     | 50          | 100      | 30            | 1049     |
| 12 | 55         | 45       | 33              | 1094     | 55          | 103      | 33            | 1065     |
| 13 | 60         | 45       | 36              | 1111     | 60          | 105      | 36            | 1079     |
| 14 |            |          | 39              | 1123     |             |          | 39            | 1090     |
| 15 |            |          | 42              | 1134     |             |          | 42            | 1099     |
| 16 |            |          | 45              | 1142     |             |          | 45            | 1108     |
| 17 |            |          | 48              | 1149     |             |          | 48            | 1116     |
| 18 |            |          | 51              | 1155     |             |          | 51            | 1122     |
| 19 |            |          | 54              | 1159     |             |          | 54            | 1127     |
| 20 |            |          | 57              | 1163     |             |          | 57            | 1132     |
| 21 |            |          | 60              | 1167     |             |          | 60            | 1137     |
| 22 |            |          | 63              | 1171     |             |          | 63            | 1142     |

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