WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/23/83 TICKET #19062
CUSTOMER: MOLZ OIL COMPANY LEASE: ECK
WELL: 2 TEST: 1 GEOLOGIST: ?
ELEVATION (KB): 1484 FORMATION: MARMATON
SECTION: 30 TOWNSHIP: 32S
RANGE: 10W COUNTY: BARBER STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4334 FT TO: 4350 FT TOTAL DEPTH: 4350 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4329 FT SIZE: 6 3/4 IN PACKER DEPTH: 4334 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN DRLG
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 9.3 WATER LOSS (CC): 6.1
CHLORIDES (P.P.M.): N/C
JARS - MAKE: WTC SERIAL NUMBER: 408
DID WELL FLOW? NO REVERSED OUT? NO

| | | | | | |
|---|---|---|---|---|---|
| DRILL COLLAR LENGTH: | 285 | FT | I.D.: 2 1/4 | IN | |
| WEIGHT PIPE LENGTH: | | FT | I.D.: | IN | |
| DRILL PIPE LENGTH: | 4021 | FT | I.D.: 3.8 | IN | |
| TEST TOOL LENGTH: | 28 | FT | TOOL SIZE: 5 1/2 OD | IN | |
| ANCHOR LENGTH: | 16 | FT | SIZE: 5 1/2 OD | 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 FH | IN | |

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 6 MINUTES ON INITIAL FLOW.
SEE ATTACHED GAS SHEET.

RECOVERED: 3 FT OF: DRILLING MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 8:00 AM TIME STARTED OFF BOTTOM: 11:45 AM
WELL TEMPERATURE: 122 'F

| | | | | |
|---|---|---|---|---|
| INITIAL HYDROSTATIC PRESSURE: | | (A) 2398 | PSI | |
| INITIAL FLOW PERIOD | MIN: 30 | (B) 77 | PSI TO (C) 44 | PSI |
| INITIAL CLOSED IN PERIOD | MIN: 42 | (D) 1678 | PSI | |
| FINAL FLOW PERIOD | MIN: 65 | (E) 59 | PSI TO (F) 16 | PSI |
| FINAL CLOSED IN PERIOD | MIN: 87 | (G) 1648 | PSI | |
| FINAL HYDROSTATIC PRESSURE | | (H) 2375 | PSI | |

# WESTERN TESTING CO. INC.
## PRESSURE DATA

DATE: 6/23/83 TICKET #19062
CUSTOMER: MOLZ OIL COMPANY LEASE: ECK
WELL: 2 TEST: 1 GEOLOGIST: ?
ELEVATION (KB): 1484 FORMATION: MARMATON
SECTION: 30 TOWNSHIP: 32S
RANGE: 10W COUNTY: BARBER STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

| | | | |
|---|---|---|---|
| (A) | INITIAL HYDROSTATIC PRESSURE: | 2398 | PSI |
| (B) | FIRST INITIAL FLOW PRESSURE: | 77 | PSI |
| (C) | FIRST FINAL FLOW PRESSURE: | 44 | PSI |
| (D) | INITIAL CLOSED-IN PRESSURE: | 1678 | PSI |
| (E) | SECOND INITIAL FLOW PRESSURE: | 59 | PSI |
| (F) | SECOND FINAL FLOW PRESSURE: | 16 | PSI |
| (G) | FINAL CLOSED-IN PRESSURE: | 1648 | PSI |
| (H) | FINAL HYDROSTATIC PRESSURE: | 2375 | PSI |
| WELL TEMPERATURE: | | 122 | 'F |

OPEN TOOL: 8:00 AM

| | TIME - GIVEN | TIME - ACTUAL |
|---|---|---|
| FIRST FLOW PRESSURE: | 30 MIN | 30 MIN |
| INITIAL CLOSED-IN PRESSURE: | 45 MIN | 42 MIN |
| SECOND FLOW PRESSURE: | 60 MIN | 65 MIN |
| FINAL CLOSED-IN PRESSURE: | 90 MIN | 87 MIN |

### PRESSURE BREAKDOWN

| | FIRST FLOW | | INITIAL SHUT-IN | | SECOND FLOW | | FINAL SHUT-IN | |
|---|---|---|---|---|---|---|---|---|
| PT | MIN | PRESSURE | MIN | PRESSURE | MIN | PRESSURE | MIN | PRESSURE |
| 1 | 0 | 77 | 0 | 44 | 0 | 59 | 0 | 16 |
| 2 | 5 | 59 | 3 | 1159 | 5 | 59 | 3 | 969 |
| 3 | 10 | 51 | 6 | 1315 | 10 | 41 | 6 | 1103 |
| 4 | 15 | 48 | 9 | 1422 | 15 | 31 | 9 | 1198 |
| 5 | 20 | 46 | 12 | 1482 | 20 | 27 | 12 | 1261 |
| 6 | 25 | 44 | 15 | 1521 | 25 | 24 | 15 | 1313 |
| 7 | 30 | 44 | 18 | 1555 | 30 | 20 | 18 | 1355 |
| 8 | | | 21 | 1582 | 35 | 19 | 21 | 1388 |
| 9 | | | 24 | 1600 | 40 | 18 | 24 | 1414 |
| 10 | | | 27 | 1619 | 45 | 17 | 27 | 1441 |
| 11 | | | 30 | 1633 | 50 | 16 | 30 | 1465 |
| 12 | | | 33 | 1647 | 55 | 16 | 33 | 1483 |
| 13 | | | 36 | 1661 | 60 | 16 | 36 | 1501 |
| 14 | | | 39 | 1670 | 65 | 16 | 39 | 1517 |
| 15 | | | 42 | 1678 | | | 42 | 1532 |
| 16 | | | | | | | 45 | 1543 |
| 17 | | | | | | | 48 | 1558 |
| 18 | | | | | | | 51 | 1567 |
| 19 | | | | | | | 54 | 1577 |
| 20 | | | | | | | 57 | 1587 |
| 21 | | | | | | | 60 | 1597 |
| 22 | | | | | | | 63 | 1606 |
| 23 | | | | | | | 66 | 1615 |
| 24 | | | | | | | 69 | 1622 |
| 25 | | | | | | | 72 | 1627 |
| 26 | | | | | | | 75 | 1632 |
| 27 | | | | | | | 78 | 1638 |
| 28 | | | | | | | 81 | 1643 |
| 29 | | | | | | | 84 | 1646 |
| 30 | | | | | | | 87 | 1648 |

# WESTERN TESTING CO. INC.
## GAS FLOW REPORT

DATE: 6/23/83 TICKET #19062
CUSTOMER: MOLZ OIL COMPANY LEASE: ECK
WELL: 2 TEST: 1 GEOLOGIST: ?
ELEVATION (KB): 1484 FORMATION: MARMATON
SECTION: 30 TOWNSHIP: 32S
RANGE: 10W COUNTY: BARBER STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

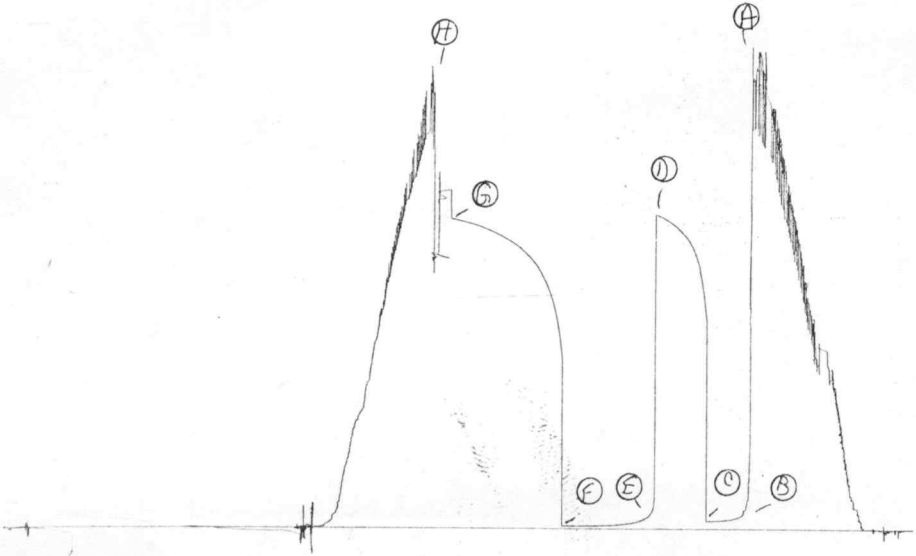
| TIME GAUGE (MIN) | TESTER TYPE | ORIFICE SIZE | PRESSURE (PSI) | FLOW DESCRIPTION |
|---|---|---|---|---|
| | | | PRE FLOW | |
| 6 | | | | GAS TO SURFACE |
| 10 | MERLA | 1/2 | 2.0 PSIG | 47700 CFPD |
| 20 | | 1/2 | 2.5 PSIG | 53400 CFPD |
| 30 | | 1/2 | 2.5 PSIG | 53400 CFPD |
| | | | SECOND FLOW | |
| 5 | MERLA | 1/2 | 8.0 PSIG | 101000 CFPD |
| 10 | | 1/2 | 6.0 PSIG | 86300 CFPD |
| 20 | | 1/2 | 4.0 PSIG | 68800 CFPD |
| 30 | | 1/2 | 3.0 PSIG | 59200 CFPD |
| 40 | | 1/2 | 2.5 PSIG | 53400 CFPD |
| 50 | | 1/2 | 2.5 PSIG | 53400 CFPD |
| 60 | | 1/2 | 2.5 PSIG | 53400 CFPD |

GAS BOTTLE SN #: 45
DATE BOTTLE FILLED: 6/23/83
DATE TO BE INVOICED: 6/23/83

2606 DST #1

IRT, 19062

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# WESTERN TESTING CO. INC.
## SUBSURFACE PRESSURE SURVEY

DATE: 6/24/83 TICKET #19063
CUSTOMER: MOLZ OIL COMPANY LEASE: ECK
WELL: 2 TEST: 2 GEOLOGIST: GORDON KEEN
ELEVATION (KB): 1484 FORMATION: MISSISSIPPI
SECTION: 30 TOWNSHIP: 32S
RANGE: 10W COUNTY: BARBER STATE: KANSAS
GAUGE SN #2606 RANGE: 4250 CLOCK: 12

INTERVAL TEST FROM: 4439 FT TO: 4485 FT TOTAL DEPTH: 4485 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4434 FT SIZE: 6 3/4 IN PACKER DEPTH: 4439 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: SWEETMAN DRLG
MUD TYPE: CHEMICAL VISCOSITY: 45
WEIGHT: 9.4 WATER LOSS (CC): 8.4
CHLORIDES (P.P.M.): N.C.
JARS - MAKE: WTC SERIAL NUMBER: 408
DID WELL FLOW? NO REVERSED OUT? NO

| | | | | | |
|---|---|---|---|---|---|
| DRILL COLLAR LENGTH: | 285 | FT | I.D.: 2 1/4 | IN | |
| WEIGHT PIPE LENGTH: | | FT | I.D.: | IN | |
| DRILL PIPE LENGTH: | 4226 | FT | I.D.: 3.8 | IN | |
| TEST TOOL LENGTH: | 28 | FT | TOOL SIZE: 5 1/2 OD | IN | |
| ANCHOR LENGTH: | 46 | FT | SIZE: 5 1/2 OD | 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 FH | IN | |

BLOW: STRONG BLOW THROUGHOUT TEST.
NO GAS TO SURFACE.

| | | | |
|---|---|---|---|
| RECOVERED: | 720 | FT | OF: GAS IN PIPE |
| RECOVERED: | 125 | FT | OF: SLIGHTLY OIL CUT MUD |
| RECOVERED: | | FT | OF: |
| RECOVERED: | | FT | OF: |
| RECOVERED: | | FT | OF: |
| RECOVERED: | | FT | OF: |
| RECOVERED: | | FT | OF: |
| RECOVERED: | | FT | OF: |
| RECOVERED: | | FT | OF: |

REMARKS:

TIME SET PACKER(S): 6:20 AM TIME STARTED OFF BOTTOM: 10:20 AM
WELL TEMPERATURE: 124 'F

| | | | | |
|---|---|---|---|---|
| INITIAL HYDROSTATIC PRESSURE: | | (A) 2423 | PSI | |
| INITIAL FLOW PERIOD | MIN: 25 | (B) 62 | PSI TO (C) 62 | PSI |
| INITIAL CLOSED IN PERIOD | MIN: 57 | (D) 444 | PSI | |
| FINAL FLOW PERIOD | MIN: 60 | (E) 77 | PSI TO (F) 77 | PSI |
| FINAL CLOSED IN PERIOD | MIN: 90 | (G) 610 | PSI | |
| FINAL HYDROSTATIC PRESSURE | | (H) 2190 | PSI | |

# WESTERN TESTING CO. INC.
## PRESSURE DATA

DATE: 6/24/83 TICKET #19063
CUSTOMER: MOLZ OIL COMPANY LEASE: ECK
WELL: 2 TEST: 2 GEOLOGIST: GORDON KEEN
ELEVATION (KB): 1484 FORMATION: MISSISSIPPI
SECTION: 30 TOWNSHIP: 32S
RANGE: 10W COUNTY: BARBER STATE: KANSAS
GAUGE SN #2606 RANGE: 4250 CLOCK: 12

| | | |
|---|---|---|
| (A) INITIAL HYDROSTATIC PRESSURE: | 2423 | PSI |
| (B) FIRST INITIAL FLOW PRESSURE: | 62 | PSI |
| (C) FIRST FINAL FLOW PRESSURE: | 62 | PSI |
| (D) INITIAL CLOSED-IN PRESSURE: | 444 | PSI |
| (E) SECOND INITIAL FLOW PRESSURE: | 77 | PSI |
| (F) SECOND FINAL FLOW PRESSURE: | 77 | PSI |
| (G) FINAL CLOSED-IN PRESSURE: | 610 | PSI |
| (H) FINAL HYDROSTATIC PRESSURE: | 2190 | PSI |
| WELL TEMPERATURE: | 124 | 'F |

OPEN TOOL: 6:20 AM

| | TIME - GIVEN | TIME - ACTUAL |
|---|---|---|
| FIRST FLOW PRESSURE: | 30 MIN | 25 MIN |
| INITIAL CLOSED-IN PRESSURE: | 60 MIN | 57 MIN |
| SECOND FLOW PRESSURE: | 60 MIN | 60 MIN |
| FINAL CLOSED-IN PRESSURE: | 90 MIN | 90 MIN |

### PRESSURE BREAKDOWN

| | FIRST FLOW | | INITIAL SHUT-IN | | SECOND FLOW | | FINAL SHUT-IN | |
|---|---|---|---|---|---|---|---|---|
| PT | MIN | PRESSURE | MIN | PRESSURE | MIN | PRESSURE | MIN | PRESSURE |
| 1 | 0 | 62 | 0 | 62 | 0 | 77 | 0 | 77 |
| 2 | 5 | 62 | 3 | 72 | 5 | 77 | 3 | 83 |
| 3 | 10 | 62 | 6 | 84 | 10 | 77 | 6 | 96 |
| 4 | 15 | 62 | 9 | 99 | 15 | 77 | 9 | 112 |
| 5 | 20 | 62 | 12 | 115 | 20 | 77 | 12 | 132 |
| 6 | 25 | 62 | 15 | 134 | 25 | 77 | 15 | 145 |
| 7 | | | 18 | 151 | 30 | 77 | 18 | 162 |
| 8 | | | 21 | 170 | 35 | 77 | 21 | 182 |
| 9 | | | 24 | 187 | 40 | 77 | 24 | 202 |
| 10 | | | 27 | 212 | 45 | 77 | 27 | 223 |
| 11 | | | 30 | 231 | 50 | 77 | 30 | 241 |
| 12 | | | 33 | 254 | 55 | 77 | 33 | 260 |
| 13 | | | 36 | 278 | 60 | 77 | 36 | 281 |
| 14 | | | 39 | 299 | | | 39 | 301 |
| 15 | | | 42 | 320 | | | 42 | 320 |
| 16 | | | 45 | 344 | | | 45 | 343 |
| 17 | | | 48 | 370 | | | 48 | 360 |
| 18 | | | 51 | 396 | | | 51 | 379 |
| 19 | | | 54 | 421 | | | 54 | 398 |
| 20 | | | 57 | 444 | | | 57 | 418 |
| 21 | | | | | | | 60 | 437 |
| 22 | | | | | | | 63 | 454 |
| 23 | | | | | | | 66 | 473 |
| 24 | | | | | | | 69 | 489 |
| 25 | | | | | | | 72 | 507 |
| 26 | | | | | | | 75 | 526 |
| 27 | | | | | | | 78 | 543 |
| 28 | | | | | | | 81 | 560 |
| 29 | | | | | | | 84 | 578 |
| 30 | | | | | | | 87 | 592 |

PRESSURE BREAKDOWN - CONT. TICKET #19063

| PT | FIRST FLOW MIN | FIRST FLOW PRESSURE | INITIAL SHUT-IN MIN | INITIAL SHUT-IN PRESSURE | SECOND FLOW MIN | SECOND FLOW PRESSURE | FINAL SHUT-IN MIN | FINAL SHUT-IN PRESSURE |
|---|---|---|---|---|---|---|---|---|
| 31 | | | | | | | 90 | 610 |
| 32 | | | | | | | | |
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2606 DST #2

# I.K.T. # 19063

