

WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 5/8/83
CUSTOMER: IREX CORP.
WELL: 1
ELEVATION (KB): 2232
SECTION: 4
RANGE: 18W
GAUGE SN #2606

TEST: 1
COUNTY: KIOWA
RANGE: 4150

TICKET #18818
LEASE: SCHMIDT
GEOLOGIST: BIRD ?
FORMATION: "A" LANSING
TOWNSHIP: 30S
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4384 FT TO: 4397 FT TOTAL DEPTH: 4435 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4379 FT SIZE: 6 3/4 IN PACKER DEPTH: 4384 FT SIZE: 6 3/4 IN
PACKER DEPTH: 4397 FT SIZE: 6 3/4 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: DRISPAC VISCOSITY: 50
WEIGHT: 9.4 WATER LOSS (CC): 9.6
CHLORIDES (P.P.M.): 22000
JARS - MAKE: WTC SERIAL NUMBER: 408
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 302 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4154 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 13 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: INITIAL FLOW PERIOD VERY WEAK BLOW.

RECOVERED: 30 FT OF: SLIGHTLY OIL CUT MUD.
RECOVERED: 60 FT OF: MUDDY WATER. CHLORIDES 57000 PPM.
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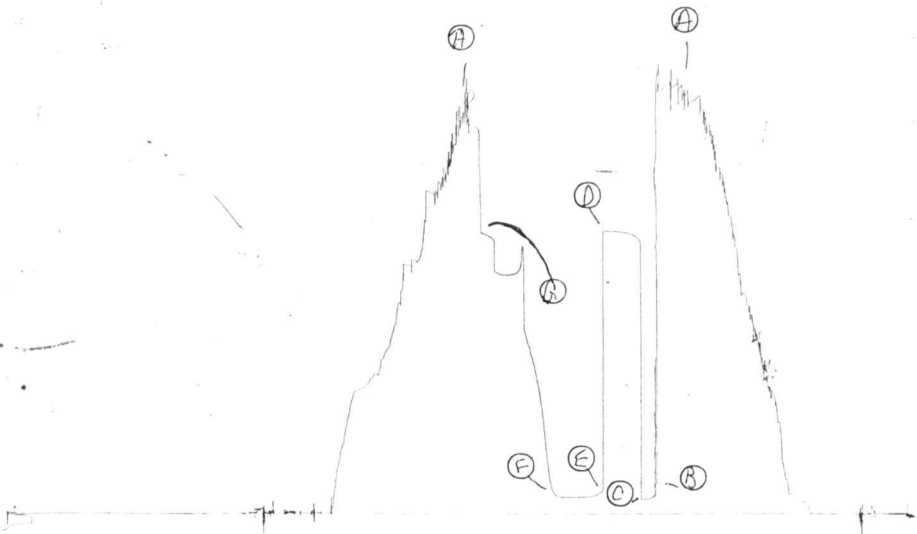
REMARKS: 38 FEET OF TAIL PIPE.
31 FEET 6 1/2" DRILL COLLAR + 7 FEET PERFS.

TIME SET PACKER(S): 3:30 AM TIME STARTED OFF BOTTOM: 5:45 AM
WELL TEMPERATURE: 100 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2290 PSI
INITIAL FLOW PERIOD MIN: 10 (B) 76 PSI TO (C) 76 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1529 PSI
FINAL FLOW PERIOD MIN: 30 (E) 90 PSI TO (F) 90 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1519 PSI
FINAL HYDROSTATIC PRESSURE (H) 2132 PSI

2606 DST #1

TKT 18818

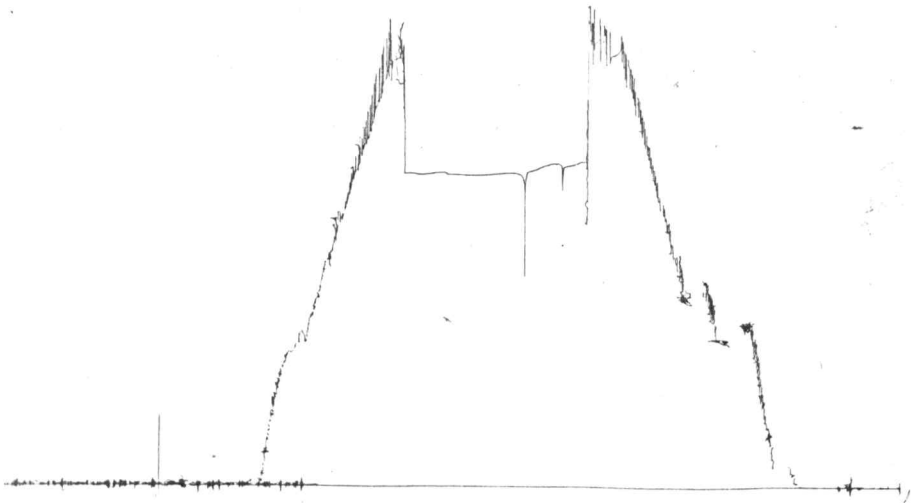
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TKT 18818

13402

Below Straddle



WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 5/10/83
CUSTOMER: IREX CORPORATION
WELL: 1 TEST: 2
ELEVATION (KB): 2232 FORMATION: MARMATON
SECTION: 4 TOWNSHIP: 30S
RANGE: 18W COUNTY: KIDWA STATE: KANSAS
GAUGE SN #13267 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4852 FT TO: 4875 FT TOTAL DEPTH: 4875 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4847 FT SIZE: 6 3/4 IN PACKER DEPTH: 4852 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: PREMIX VISCOSITY: 44
WEIGHT: 9.3 WATER LOSS (CC): 9.6
CHLORIDES (P.P.M.): 20000
JARS - MAKE: WTC SERIAL NUMBER: 408
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 278 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4546 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 23 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:

RECOVERED: FT OF:
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REMARKS: MISRUN. PACKER SEAT WOULDN'T HOLD.

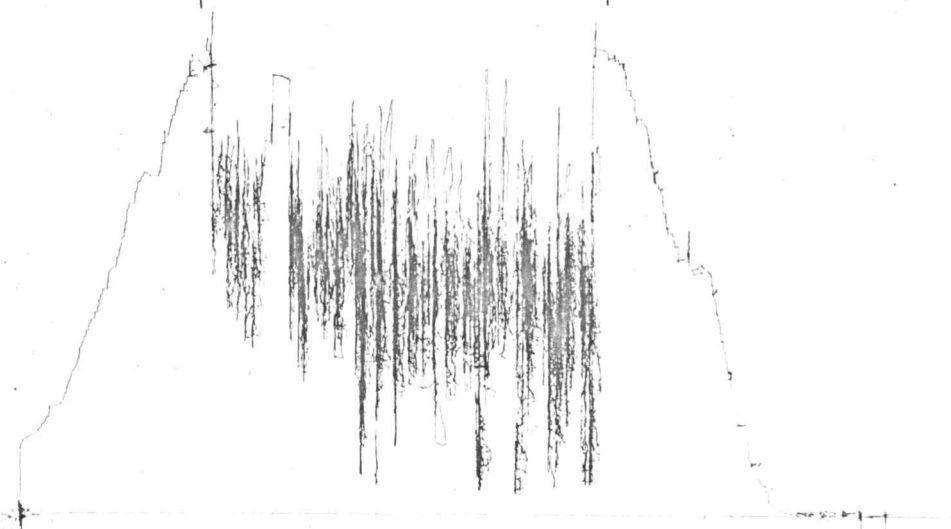
TIME SET PACKER(S): 12:10 AM TIME STARTED OFF BOTTOM: 12:25 AM
WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2419 PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 2419 PSI

13267 DIST # 2

TKT # 18820

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WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 5/11/83 TICKET #18821
 CUSTOMER: IREX CORPORATION LEASE: SCHMIDT
 WELL: 1 TEST: 3 GEOLOGIST: LOUIS BIRD
 ELEVATION (KB): 2232 FORMATION: MARMATON
 SECTION: 4 TOWNSHIP: 30S
 RANGE: 18W COUNTY: KIOWA STATE: KANSAS
 GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4830 FT TO: 4875 FT TOTAL DEPTH: 4875 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4825 FT SIZE: 6 3/4 IN PACKER DEPTH: 4830 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
 MUD TYPE: STARCH VISCOSITY: 44
 WEIGHT: 9.3 WATER LOSS (CC): 9.6
 CHLORIDES (P.P.M.): 20000
 JARS - MAKE: WTC SERIAL NUMBER: 408
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 278 FT I.D.: 2 1/4 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4524 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 OD IN
 ANCHOR LENGTH: 45 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 ON INITIAL FLOW PERIOD.
 GAS TO SURFACE IN 25 MINUTES.
 SEE GAS SHEET ATTACHED.

RECOVERED: 65 FT OF: GAS CUT MUD
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 RECOVERED: FT OF:
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REMARKS:

TIME SET PACKER(S): 7:00 AM TIME STARTED OFF BOTTOM: 10:20 AM
 WELL TEMPERATURE: 124 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2464 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 92 PSI TO (C) 77 PSI
 INITIAL CLOSED IN PERIOD MIN: 57 (D) 1503 PSI
 FINAL FLOW PERIOD MIN: 40 (E) 75 PSI TO (F) 41 PSI
 FINAL CLOSED IN PERIOD MIN: 72 (G) 1639 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2408 PSI

WESTERN TESTING COMPANY
GAS FLOW REPORT

DATE: 5/11/83
CUSTOMER: IREX CORPORATION
WELL: 1 TEST: 3
ELEVATION (KB): 2232 FORMATION: MARMATON
SECTION: 4 TOWNSHIP: 30S
RANGE: 18W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

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

PRE FLOW

25
30 MERLA 1/2 12" WTR GAS TO SURFACE
21900 CFPD

SECOND FLOW

5 MERLA 1/2 58" WTR 47800 CFPD
10 1/2 50" WTR 44300 CFPD
15 1/2 24" WTR 30700 CFPD
20 1/2 22" WTR 29400 CFPD
25 1/2 20" WTR 28000 CFPD
30 1/2 20" WTR 28000 CFPD
35 1/2 20" WTR 28000 CFPD
40 1/2 20" WTR 28000 CFPD

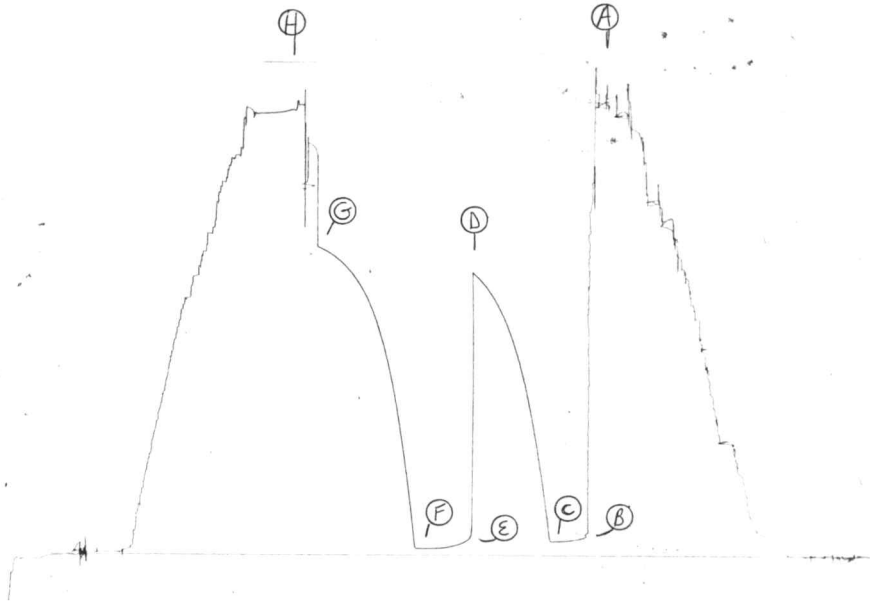
GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 5/11/83

2606

DST #3

TKT # 18821

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WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 5/12/83
CUSTOMER: IREX CORPORATION
WELL: 1 TEST: 4
ELEVATION (KB): 2232 FORMATION: MISSISSIPPI
SECTION: 4 TOWNSHIP: 30S
RANGE: 18W COUNTY: KIOWA STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4942 FT TO: 5023 FT TOTAL DEPTH: 5023 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4937 FT SIZE: 6 3/4 IN Packer DEPTH: 4942 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: DRISTARCH VISCOSITY: 45
WEIGHT: 9.1 WATER LOSS (CC): 8.0
CHLORIDES (P.P.M.): 14000
JARS - MAKE: WTC SERIAL NUMBER: 408
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 218 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4698 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 81 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: WEAK BLOW THROUGHOUT TEST.

RECOVERED: 200 FT OF: DRILLING MUD
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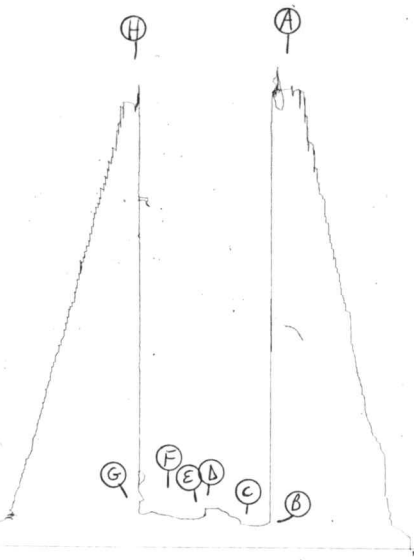
REMARKS: 31 FT. D.C. - 19 FT.

TIME SET PACKER(S): 11:15 AM TIME STARTED OFF BOTTOM: 12:45 PM
WELL TEMPERATURE: 125 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2441 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 120 PSI TO (C) 121 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 208 PSI
FINAL FLOW PERIOD MIN: 15 (E) 153 PSI TO (F) 153 PSI
FINAL CLOSED IN PERIOD MIN: 33 (G) 182 PSI
FINAL HYDROSTATIC PRESSURE (H) 2366 PSI

2606 DST 74

TKT # 18822

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WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

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|----------------------------|------------------------|
| DATE: 5/13/83 | TICKET #18823 |
| CUSTOMER: IREX CORPORATION | LEASE: SCHMIDT |
| WELL: 1 | TEST: 5 |
| ELEVATION (KB): 2232 | GEOLOGIST: LOUIS BIRD |
| SECTION: 4 | FORMATION: MISSISSIPPI |
| RANGE: 18W | TOWNSHIP: 30S |
| Gauge SN #2606 | COUNTY: KIOWA |
| | STATE: KANSAS |
| | RANGE: 4150 |
| | CLOCK: 12 |

INTERVAL TEST FROM: 5057 FT TO: 5097 FT TOTAL DEPTH: 5097 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 5052 FT SIZE: 6 3/4 IN PACKER DEPTH: 5057 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
 MUD TYPE: DRISTARCH VISCOSITY: 45
 WEIGHT: 9.1 WATER LOSS (CC): 8.0
 CHLORIDES (P.P.M.): 14000
 JARS - MAKE: WTC SERIAL NUMBER: 408
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 278 FT I.D.: 2 1/4 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4751 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 OD IN
 ANCHOR LENGTH: 40 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 ON INITIAL FLOW PERIOD
 GAS TO SURFACE AT START OF FINAL FLOW PERIOD.
 SEE ATTACHED GAS SHEET

| | | |
|----------------|----|---|
| RECOVERED: 180 | FT | OF: GAS & SLIGHTLY OIL CUT MUD |
| RECOVERED: | FT | OF: 80% MUD; 3% OIL; 17% GAS |
| RECOVERED: 220 | FT | OF: GAS & SLIGHTLY OIL CUT MUDDY WATER |
| RECOVERED: | FT | OF: 30% MUD; 40% WATER; 3% OIL; 27% GAS |
| RECOVERED: 560 | FT | OF: WATER - GAS CUT CHLORIDES 87000 PPM |
| RECOVERED: | FT | OF: |
| RECOVERED: | FT | OF: |
| RECOVERED: | FT | OF: |
| RECOVERED: | FT | OF: |

REMARKS: SLID TOOL 10 FT. TO BOTTOM

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|----------------------------------|-----------------------------------|
| TIME SET PACKER(S): 7:30 AM | TIME STARTED OFF BOTTOM: 10:30 AM |
| WELL TEMPERATURE: 126 °F | |
| INITIAL HYDROSTATIC PRESSURE: | (A) 2502 PSI |
| INITIAL FLOW PERIOD MIN: 25 | (B) 116 PSI TO (C) 129 PSI |
| INITIAL CLOSED IN PERIOD MIN: 60 | (D) 1096 PSI |
| FINAL FLOW PERIOD MIN: 35 | (E) 192 PSI TO (F) 206 PSI |
| FINAL CLOSED IN PERIOD MIN: 60 | (G) 1092 PSI |
| FINAL HYDROSTATIC PRESSURE | (H) 2443 PSI |

WESTERN TESTING COMPANY
GAS FLOW REPORT

DATE: 5/13/83
CUSTOMER: IREX CORPORATION
WELL: 1
ELEVATION (KB): 2232
SECTION: 4
RANGE: 18W
GAUGE SN #2606

TEST: 5
FORMATION: MISSISSIPPI
TOWNSHIP: 30S
COUNTY: KIOWA
RANGE: 4150

TICKET #18823
LEASE: SCHMIDT
GEOLOGIST: LOUIS BIRD
STATE: KANSAS
CLOCK: 12

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

SECOND FLOW

| | | | | |
|----|-------|-----|--------|----------------|
| 1 | | | | GAS TO SURFACE |
| 10 | MERLA | 1/2 | 10"WTR | 19900 CFPD |
| 20 | | 1/2 | 10"WTR | 19900 CFPD |
| 30 | | 1/2 | 10"WTR | 19900 CFPD |

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 5/13/83

2600 251

TKT # 18823

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