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

DATE: 10/1/83 TICKET #1844
CUSTOMER: ATTICA GAS VENTURE CORP. LEASE: SANDERS
WELL: 1 TEST: 1 GEOLOGIST: SCHIERLING
ELEVATION (KB): 1583 FORMATION: MISSISSIPPI
SECTION: 20 TOWNSHIP: 31S
RANGE: 8W COUNTY: HARPER STATE: KANSAS
GAUGE SN #13267 RANGE: 4050 CLOCK: 12

INTERVAL TEST FROM: 4367 FT TO: 4377 FT TOTAL DEPTH: 4377 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4362 FT SIZE: 6 3/4 IN PACKER DEPTH: 4367 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GABBERT & JONES
MUD TYPE: DRISPAC VISCOSITY: 42
WEIGHT: 9.4 WATER LOSS (CC): 8.0
CHLORIDES (P.P.M.): 12000
JARS - MAKE: WTC SERIAL NUMBER: 409
DID WELL FLOW? NO REVERSED OUT? NO

| | | | | | |
|---|---|---|---|---|---|
| DRILL COLLAR LENGTH: | 463 | FT | I.D.: | 2 1/4 | IN |
| WEIGHT PIPE LENGTH: | | FT | I.D.: | | IN |
| DRILL PIPE LENGTH: | 3876 | FT | I.D.: | 3.8 | IN |
| TEST TOOL LENGTH: | 28 | FT | TOOL SIZE: | 5 1/2 OD | IN |
| ANCHOR LENGTH: | 10 | 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 20 MINUTES ON
INITIAL FLOW.
SEE ATTACHED GAS SHEET.

| | | | |
|---|---|---|---|
| RECOVERED: | 700 FT | OF: | SLIGHTLY OIL & GAS CUT MUD |
| RECOVERED: | FT | OF: | 10% GAS; 5% OIL; 85% MUD |
| RECOVERED: | 60 FT | OF: | GAS & OIL CUT WATERY MUD |
| RECOVERED: | FT | OF: | 25% GAS; 25% OIL; 30% WATER; 20% MUD |
| RECOVERED: | FT | OF: | |
| RECOVERED: | FT | OF: | |
| RECOVERED: | FT | OF: | |
| RECOVERED: | FT | OF: | |
| RECOVERED: | FT | OF: | |

REMARKS: CHLORIDES 52000 PPM
READ OUTSIDE CHART.

TIME SET PACKER(S): 3:20 PM TIME STARTED OFF BOTTOM: 5:50 PM
WELL TEMPERATURE: 118 'F

| | | | | |
|---|---|---|---|---|
| INITIAL HYDROSTATIC PRESSURE: | | (A) 2287 | PSI | |
| INITIAL FLOW PERIOD | MIN: 25 | (B) 68 | PSI TO (C) 68 | PSI |
| INITIAL CLOSED IN PERIOD | MIN: 42 | (D) 1142 | PSI | |
| FINAL FLOW PERIOD | MIN: 30 | (E) 71 | PSI TO (F) 71 | PSI |
| FINAL CLOSED IN PERIOD | MIN: 45 | (G) 1114 | PSI | |
| FINAL HYDROSTATIC PRESSURE | | (H) 2180 | PSI | |

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## PRESSURE DATA

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ELEVATION (KB): 1583 FORMATION: MISSISSIPPI
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GAUGE SN #13267 RANGE: 4050 CLOCK: 12

| | | |
|---|---|---|
| (A) INITIAL HYDROSTATIC PRESSURE: | 2287 | PSI |
| (B) FIRST INITIAL FLOW PRESSURE: | 68 | PSI |
| (C) FIRST FINAL FLOW PRESSURE: | 68 | PSI |
| (D) INITIAL CLOSED-IN PRESSURE: | 1142 | PSI |
| (E) SECOND INITIAL FLOW PRESSURE: | 71 | PSI |
| (F) SECOND FINAL FLOW PRESSURE: | 71 | PSI |
| (G) FINAL CLOSED-IN PRESSURE: | 1114 | PSI |
| (H) FINAL HYDROSTATIC PRESSURE: | 2180 | PSI |
| WELL TEMPERATURE: | 118 | 'F |

OPEN TOOL: 3:20 PM

| | TIME - GIVEN | | TIME - ACTUAL | |
|---|---|---|---|---|
| FIRST FLOW PRESSURE: | 30 | MIN | 25 | MIN |
| INITIAL CLOSED-IN PRESSURE: | 45 | MIN | 42 | MIN |
| SECOND FLOW PRESSURE: | 30 | MIN | 30 | MIN |
| FINAL CLOSED-IN PRESSURE: | 45 | MIN | 45 | MIN |

PRESSURE BREAKDOWN

| | FIRST FLOW | | INITIAL SHUT-IN | | SECOND FLOW | | FINAL SHUT-IN | |
|---|---|---|---|---|---|---|---|---|
| PT | MIN | PRESSURE | MIN | PRESSURE | MIN | PRESSURE | MIN | PRESSURE |
| 1 | 0 | 68 | 0 | 68 | 0 | 71 | 0 | 71 |
| 2 | 5 | 68 | 3 | 372 | 5 | 71 | 3 | 71 |
| 3 | 10 | 68 | 6 | 703 | 10 | 71 | 6 | 174 |
| 4 | 15 | 68 | 9 | 860 | 15 | 71 | 9 | 543 |
| 5 | 20 | 68 | 12 | 992 | 20 | 71 | 12 | 582 |
| 6 | 25 | 68 | 15 | 1042 | 25 | 71 | 15 | 897 |
| 7 | | | 18 | 1071 | 30 | 71 | 18 | 965 |
| 8 | | | 21 | 1097 | | | 21 | 1002 |
| 9 | | | 24 | 1114 | | | 24 | 1039 |
| 10 | | | 27 | 1122 | | | 27 | 1063 |
| 11 | | | 30 | 1131 | | | 30 | 1077 |
| 12 | | | 33 | 1135 | | | 33 | 1087 |
| 13 | | | 36 | 1138 | | | 36 | 1097 |
| 14 | | | 39 | 1140 | | | 39 | 1107 |
| 15 | | | 42 | 1142 | | | 42 | 1111 |
| 16 | | | | | | | 45 | 1114 |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
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| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

WESTERN TESTING CO. INC.
GAS FLOW REPORT

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GAUGE SN #13267 RANGE: 4050 CLOCK: 12

| TIME GAUGE (MIN) | TESTER TYPE | ORIFICE SIZE | PRESSURE (PSI) | FLOW DESCRIPTION |
|---|---|---|---|---|
| | | PRE FLOW | | |
| 20 | | | | GAS TO SURFACE |
| 25 | MERLA | 1/2 | 26"WTR | 31900 CFPD |
| 30 | | 1/2 | 34" WTR | 36500 CFPD |
| | | SECOND FLOW | | |
| 10 | MERLA | 1/2 | 4 PSIG | 68800 CFPD |
| 20 | | 1/2 | 3 PSIG | 59200 CFPD |
| 30 | | 1/2 | 3 PSIG | 59200 CFPD |

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 10/1/83

13267 [illegible]

tck # 1.844

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