Company American Energies Corporation — Lease & Well No. Chase #1

Elevation --- — Formation Lansing — Effective Pay --- Ft. — Ticket No. 17051

Date 7/20/82 — Sec. 26 — Twp. 19S — Range 29W — County Lane — State Kansas

Test Approved by Charles R. Rhoades — Western Representative Dave Sloan

Formation Test No. 1 — Interval Tested from 4296 ft. to 4317 ft. — Total Depth 4317 ft.

Packer Depth 4291 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4296 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4309 ft. — Recorder Number 2604 — Cap. 4150

Bottom Recorder Depth (Outside) 4312 ft. — Recorder Number 6246 — Cap. 5200

Below Straddle Recorder Depth - ft. — Recorder Number - — Cap. -

Drilling Contractor Reach Drlg. Rig #1 — Drill Collar Length 180 — I. D. 2.2 in.

Mud Type chemical — Viscosity 40 — Weight Pipe Length - — I. D. - in.

Weight 9.2 — Water Loss 10.5 cc. — Drill Pipe Length 4096 — I. D. 3.8 in.

Chlorides 3,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 21 ft. — Size 5½OD in.

Did Well Flow? No — Reversed Out Yes — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4½XH in.

Blow: Strong. Bottom of bucket in six minutes on initial flow period. Final flow period strong blow - bottom of bucket in fifteen minutes.

Recovered 910 ft. of muddy water

Recovered ft. of chlorides 30,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Hit bridge 1000' in hole - jumped clocks.

Time Set Packer(s) 11:40 ~~A.M.~~ P.M. — Time Started Off Bottom 3:10 A.M. ~~P.M.~~ — Maximum Temperature 120°

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2078 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 113 | P.S.I. to (C) | 201 | P.S.I. |
| Initial Closed In Period | Minutes 63 | (D) | 1170 | P.S.I. | | |
| Final Flow Period | Minutes 45 | (E) | 286 | P.S.I. to (F) | 404 | P.S.I. |
| Final Closed In Period | Minutes 75 | (G) | 1156 | P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 2078 | P.S.I. | | |

# WESTERN TESTING CO., INC.
## Pressure Data

Date 7/20/82 Test Ticket No. 17051

Recorder No. 2604 Capacity 4150 Location 4309 Ft.

Clock No. -- Elevation - Well Temperature 120 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2078 P.S.I. | Open Tool | | 11:40P M | |
| B | First Initial Flow Pressure | 113 P.S.I. | First Flow Pressure | | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 201 P.S.I. | Initial Closed-in Pressure | | 60 Mins. | 63 Mins. |
| D | Initial Closed-in Pressure | 1170 P.S.I. | Second Flow Pressure | | 45 Mins. | 45 Mins. |
| E | Second Initial Flow Pressure | 286 P.S.I. | Final Closed-in Pressure | | 75 Mins. | 75 Mins. |
| F | Second Final Flow Pressure | 404 P.S.I. | | | | |
| G | Final Closed-in Pressure | 1156 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2078 P.S.I. | | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 113 |
| P 2 5 | 113 |
| P 3 10 | 114 |
| P 4 15 | 125 |
| P 5 20 | 148 |
| P 6 25 | 173 |
| P 7 30 | 201 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 201 |
| 3 | 680 |
| 6 | 978 |
| 9 | 1031 |
| 12 | 1067 |
| 15 | 1087 |
| 18 | 1101 |
| 21 | 1113 |
| 24 | 1122 |
| 27 | 1130 |
| 30 | 1136 |
| 33 | 1141 |
| 36 | 1145 |
| 39 | 1150 |
| 42 | 1156 |
| 45 | 1160 |
| 48 | 1163 |
| 51 | 1165 |
| 54 | 1167 |
| 57 | 1168 |
| 60 | 1169 |
| 63 | 1170 |

**Second Flow Pressure**
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 286 |
| 5 | 286 |
| 10 | 286 |
| 15 | 292 |
| 20 | 309 |
| 25 | 331 |
| 30 | 352 |
| 35 | 372 |
| 40 | 392 |
| 45 | 404 |

**Final Shut-In**
Breakdown: 25 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 404 |
| 3 | 958 |
| 6 | 1017 |
| 9 | 1046 |
| 12 | 1065 |
| 15 | 1077 |
| 18 | 1089 |
| 21 | 1096 |
| 24 | 1106 |
| 27 | 1111 |
| 30 | 1117 |
| 33 | 1123 |
| 36 | 1129 |
| 39 | 1134 |
| 42 | 1138 |
| 45 | 1140 |
| 48 | 1142 |
| 51 | 1144 |
| 54 | 1146 |
| 57 | 1148 |
| 60 | 1150 |



CONTINUED NEXT PAGE

## WESTERN TESTING CO., INC.
### Pressure Data

Date 7/20/82 Test Ticket No. 17051

Recorder No. 2604 Capacity 4150 Location 4309 Ft.

Clock No. -- Elevation - Well Temperature 120 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2078 P.S.I. | | Open Tool | 11:40P M | |
| B | First Initial Flow Pressure | 113 P.S.I. | | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 201 P.S.I. | | Initial Closed-in Pressure | 60 Mins. | 63 Mins. |
| D | Initial Closed-in Pressure | 1170 P.S.I. | | Second Flow Pressure | 45 Mins. | 45 Mins. |
| E | Second Initial Flow Pressure | 286 P.S.I. | | Final Closed-in Pressure | 75 Mins. | 75 Mins. |
| F | Second Final Flow Pressure | 404 P.S.I. | | | | |
| G | Final Closed-in Pressure | 1156 P.S.I. | | | | |
| H | Final Hydrostatic Mud | 2078 P.S.I. | | | | |

### PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

**Initial Shut-In**
Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

**Second Flow Pressure**
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

**Final Shut-In**
Breakdown: 25 Inc.
of 3 mins. and a
final inc. of 0 Min.

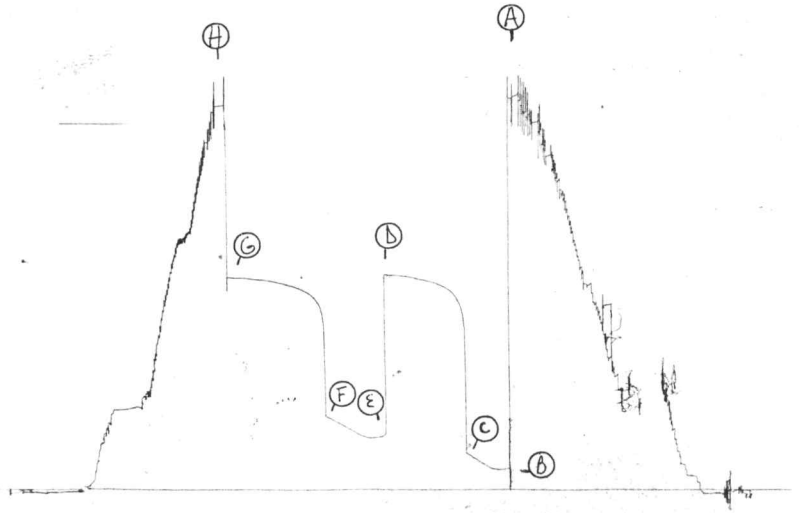
| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---|---|---|---|---|---|---|---|
| P 1 | | | | | | 63 | 1152 |
| P 2 | | | | | | 66 | 1153 |
| P 3 | | | | | | 69 | 1154 |
| P 4 | | | | | | 72 | 1155 |
| P 5 | | | | | | 75 | 1156 |
| P 6 | | | | | | | |
| P 7 | | | | | | | |
| P 8 | | | | | | | |
| P 9 | | | | | | | |
| P10 | | | | | | | |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

2604

# IKT # 17051

I

American Energies
Chalk #1
DST 1



Company American Energies Corporation — Lease & Well No. #1 Chase

Elevation 2833 Kelly Bushing — Formation Lansing K — Effective Pay - Ft. — Ticket No. 17052

Date 7/21/82 — Sec. 26 — Twp. 19S — Range 29W — County Lane — State Kansas

Test Approved by Charles R Rhoades — Western Representative Dave Sloan

Formation Test No. 2 — Interval Tested from 4339 ft. to 4363 ft. — Total Depth 4363 ft.

Packer Depth 4334 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4339 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4352 ft. — Recorder Number 2604 — Cap. 4150

Bottom Recorder Depth (Outside) 4355 ft. — Recorder Number 6246 — Cap. 5200

Below Straddle Recorder Depth - ft. — Recorder Number - — Cap. -

Drilling Contractor Reach Drilling Rig #1 — Drill Collar Length 180 — I. D. 2.2 in.

Mud Type Chemical — Viscosity 50 — Weight Pipe Length - — I. D. - in.

Weight 9.4 — Water Loss 9.6 cc. — Drill Pipe Length 4139 — I. D. 3.8 in.

Chlorides 4000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 24 ft. — Size 5½OD in.

Did Well Flow? No — Reversed Out No — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4½XH in.

Blow: Weak - died in 4 minutes on initial flow period.

No blow on final flow period

Recovered 3 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9.00 ~~A.M.~~ P.M. — Time Started Off Bottom 11:00 ~~A.M.~~ P.M. — Maximum Temperature 120

| | | | | | | |
|---|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | | (A) | 2170 | P.S.I. | |
| Initial Flow Period | Minutes 30 | (B) | 11 | P.S.I. to (C) | 11 | P.S.I. |
| Initial Closed In Period | Minutes 33 | (D) | 963 | P.S.I. | | |
| Final Flow Period | Minutes 30 | (E) | 58 | P.S.I. to (F) | 58 | P.S.I. |
| Final Closed In Period | Minutes 30 | (G) | 912 | P.S.I. | | |
| Final Hydrostatic Pressure | | | (H) | 2095 | P.S.I. | |

# WESTERN TESTING CO., INC.
## Pressure Data

Date 7/21/82 Test Ticket No. 17052

Recorder No. 2604 Capacity 4150 Location 4352 Ft.

Clock No. - Elevation 2833 Kelly Bushing Well Temperature 120 °F

| Point | Pressure | | Time Given | Time Computed |
|---|---|---|---|---|
| A Initial Hydrostatic Mud | 2170 P.S.I. | Open Tool | 9:00P M | |
| B First Initial Flow Pressure | 11 P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C First Final Flow Pressure | 11 P.S.I. | Initial Closed-in Pressure | 30 Mins. | 33 Mins. |
| D Initial Closed-in Pressure | 963 P.S.I. | Second Flow Pressure | 30 Mins. | 30 Mins. |
| E Second Initial Flow Pressure | 58 P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F Second Final Flow Pressure | 58 P.S.I. | | | |
| G Final Closed-in Pressure | 912 P.S.I. | | | |
| H Final Hydrostatic Mud | 2095 P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 11 |
| P 2 5 | 11 |
| P 3 10 | 11 |
| P 4 15 | 11 |
| P 5 20 | 11 |
| P 6 25 | 11 |
| P 7 30 | 11 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 11 |
| 3 | 13 |
| 6 | 66 |
| 9 | 280 |
| 12 | 513 |
| 15 | 667 |
| 18 | 765 |
| 21 | 835 |
| 24 | 878 |
| 27 | 923 |
| 30 | 950 |
| 33 | 963 |

**Second Flow Pressure**
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 58 |
| 5 | 58 |
| 10 | 58 |
| 15 | 58 |
| 20 | 58 |
| 25 | 58 |
| 30 | 58 |

**Final Shut-In**
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

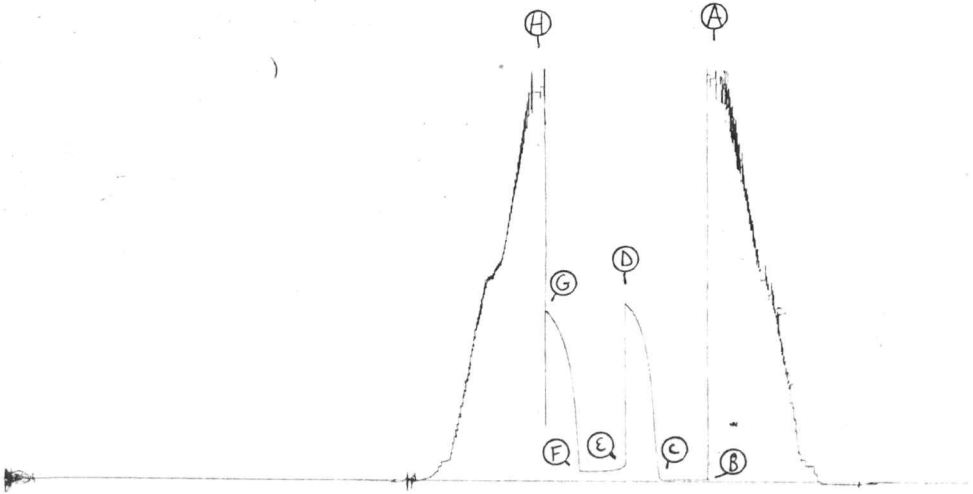
| Point Minutes | Press. |
|---|---|
| 0 | 58 |
| 3 | 59 |
| 6 | 288 |
| 9 | 489 |
| 12 | 632 |
| 15 | 719 |
| 18 | 782 |
| 21 | 828 |
| 24 | 866 |
| 27 | 898 |
| 30 | 912 |

2604

TKT # 17052

I

American Energies
Chase #1
DST



Company American Energies Corporation — Lease & Well No. Chase #1

Elevation 2833 Kelly Bushing — Formation Marmaton — Effective Pay -- Ft. — Ticket No. 17053

Date 7/22/82 — Sec. 26 — Twp. 19S — Range 29W — County Lane — State Kansas

Test Approved by Charles R. Rhoades — Western Representative Dave Sloan

Formation Test No. 3 — Interval Tested from 4454 ft. to 4466 ft. — Total Depth 4466 ft.

Packer Depth 4449 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4454 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4456 ft. — Recorder Number 2604 — Cap. 4150

Bottom Recorder Depth (Outside) 4459 ft. — Recorder Number 6246 — Cap. 5200

Below Straddle Recorder Depth - ft. — Recorder Number - — Cap. -

Drilling Contractor Reach Drlg. Rig #1 — Drill Collar Length 180 — I. D. 2.2 in.

Mud Type chemical — Viscosity 45 — Weight Pipe Length - — I. D. - in.

Weight 9.4 — Water Loss 11.4 cc. — Drill Pipe Length 4254 — I. D. 3.8 in.

Chlorides 4,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make = — Serial Number = — Anchor Length 12 ft. — Size 5½OD in.

Did Well Flow? No — Reversed Out No — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4½XH in.

Blow: Very weak initial flow period and dead in one minute. No blow on final flow period.

Recovered 1 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Flushed tool five minutes into final flow period; few bubbles.

Read pressures from bottom recorder.

Time Set Packer(s) 11:10 ~~A.M.~~ P.M. — Time Started Off Bottom 1:10 A.M. ~~P.M.~~ — Maximum Temperature 122°

| | | | | | |
|---|---|---|---|---|---|
| Initial Hydrostatic Pressure | | (A) | 2170 P.S.I. | | |
| Initial Flow Period | Minutes 30 | (B) | 24 P.S.I. | to (C) | 24 P.S.I. |
| Initial Closed In Period | Minutes 27 | (D) | 173 P.S.I. | | |
| Final Flow Period | Minutes 30 | (E) | 41 P.S.I. | to (F) | 18 P.S.I. |
| Final Closed In Period | Minutes 30 | (G) | 105 P.S.I. | | |
| Final Hydrostatic Pressure | | (H) | 2083 P.S.I. | | |

# WESTERN TESTING CO., INC.
## Pressure Data

Date 7/22/82 Test Ticket No. 17053

Recorder No. 6246 Capacity 5200 Location 4459 Ft.

Clock No. -- Elevation 2833 Kelly Bushing Well Temperature 122 °F

| Point | | Pressure | | | Time Given | Time Computed |
|---|---|---|---|---|---|---|
| A | Initial Hydrostatic Mud | 2170 | P.S.I. | Open Tool | 11:10P M | |
| B | First Initial Flow Pressure | 24 | P.S.I. | First Flow Pressure | 30 Mins. | 30 Mins. |
| C | First Final Flow Pressure | 24 | P.S.I. | Initial Closed-in Pressure | 30 Mins. | 27 Mins. |
| D | Initial Closed-in Pressure | 173 | P.S.I. | Second Flow Pressure | 30 Mins. | 30 Mins. |
| E | Second Initial Flow Pressure | 41 | P.S.I. | Final Closed-in Pressure | 30 Mins. | 30 Mins. |
| F | Second Final Flow Pressure | 18 | P.S.I. | | | |
| G | Final Closed-in Pressure | 105 | P.S.I. | | | |
| H | Final Hydrostatic Mud | 2083 | P.S.I. | | | |

## PRESSURE BREAKDOWN

**First Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Mins. | Press. |
|---|---|
| P 1 0 | 24 |
| P 2 5 | 24 |
| P 3 10 | 24 |
| P 4 15 | 24 |
| P 5 20 | 24 |
| P 6 25 | 24 |
| P 7 30 | 24 |
| P 8 | |
| P 9 | |
| P10 | |
| P11 | |
| P12 | |
| P13 | |
| P14 | |
| P15 | |
| P16 | |
| P17 | |
| P18 | |
| P19 | |
| P20 | |

**Initial Shut-In**
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 24 |
| 3 | 25 |
| 6 | 26 |
| 9 | 27 |
| 12 | 28 |
| 15 | 30 |
| 18 | 49 |
| 21 | 92 |
| 24 | 135 |
| 27 | 173 |

**Second Flow Pressure**
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 41 |
| 5 | FLUSHED TOOL |
| 10 | 18 |
| 15 | 18 |
| 20 | 18 |
| 25 | 18 |
| 30 | 18 |

**Final Shut-In**
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Minutes | Press. |
|---|---|
| 0 | 18 |
| 3 | 19 |
| 6 | 20 |
| 9 | 21 |
| 12 | 22 |
| 15 | 25 |
| 18 | 33 |
| 21 | 62 |
| 24 | 97 |
| 27 | 105 |
| 30 | 105 |

WTC - 4

6246

American Energy
Chart #1
DST 3

IKT #17053