

**WELL NAME:** MLP Young Trust # 4-5

**COMPANY:** Hugoton Energy Corp.

**LOCATION:** Sec. <sup>5</sup>~~3~~ Twp. 31S Rge. 34W KGS DRL  
Seward County Kansas

**DATE:** 1/22/97

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TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp  
WELL NAME: MLP Young Trust # 4-5  
LOCATION : 3-31S-34W Seward KS  
INTERVAL : 3986.00 To 4032.00 ft

DATE 1/12/97  
KB 2809.00 ft TICKET NO: 9098 DST #1  
GR 2798.00 ft FORMATION: Lansing  
TD 4032.00 ft TEST TYPE: CONV.

RECORDER DATA

| Mins  |             | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------|-------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 | Rec.        | 10333  | 1033   | 2836   |     |     | PF Fr. 12:5 to 13:2 hr |
| SI 60 | Range(Psi ) | 4075.0 | 4075.0 | 3500.0 | 0.0 | 0.0 | IS Fr. 13:2 to 14:2 hr |
| SF 45 | Clock(hrs)  | 12hr   | 12hr   | 12hr   |     |     | SF Fr. 14:2 to 15:1 hr |
| FS 90 | Depth(ft )  | 3983.0 | 3983.0 | 4029.0 | 0.0 | 0.0 | FS Fr. 15:1 to 16:4 hr |

|                | Field  | 1      | 2   | 3   | 4   |                   |
|----------------|--------|--------|-----|-----|-----|-------------------|
| A. Init Hydro  | 1888.0 | 1892.0 | 0.0 | 0.0 | 0.0 | T STARTED 11:0 hr |
| B. First Flow  | 91.0   | 84.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 12:5 hr |
| B1. Final Flow | 121.0  | 105.0  | 0.0 | 0.0 | 0.0 | T OPEN 12:5 hr    |
| C. In Shut-in  | 1118.0 | 1105.0 | 0.0 | 0.0 | 0.0 | T PULLED 16:4 hr  |
| D. Init Flow   | 142.0  | 155.0  | 0.0 | 0.0 | 0.0 | T OUT 19:0 hr     |
| E. Final Flow  | 121.0  | 116.0  | 0.0 | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 1118.0 | 1096.0 | 0.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 1744.0 | 1837.0 | 0.0 | 0.0 | 0.0 |                   |
| Inside/Outside | O      | O      | I   |     |     |                   |

RECOVERY

|           |                     |                   |                |                  |              |
|-----------|---------------------|-------------------|----------------|------------------|--------------|
| Tot Fluid | 65.00 ft of         | 0.00 ft in DC and | 65.00 ft in DP | Tool Wt.         | 0.00 lbs     |
| 65.00     | ft of Muddy Water   | 30% water         | 70% Mud        | Wt Set On Packer | 30000.00 lbs |
| 0.00      | ft of               |                   |                | Wt Pulled Loose  | 55000.00 lbs |
| 0.00      | ft of               |                   |                | Initial Str Wt   | 45000.00 lbs |
| 0.00      | ft of               |                   |                | Unseated Str Wt  | 45000.00 lbs |
| 0.00      | ft of               |                   |                | Bot Choke        | 0.75 in      |
| 0.00      | ft of               |                   |                | Hole Size        | 7.88 in      |
| 0.00      | ft of               |                   |                | D Col. ID        | 2.25 in      |
| 0.00      | ft of               |                   |                | D. Pipe ID       | 3.80 in      |
| 0.00      | ft of               |                   |                | D.C. Length      | 0.00 ft      |
| 0.00      | ft of RW 1.54 @ 52F |                   |                | D.P. Length      | 3966.00 ft   |
| 0.00      | ft of               |                   |                |                  |              |
| SALINITY  | 5000.00 P.P.M.      | A.P.I. Gravity    | 0.00           |                  |              |

BLOW DESCRIPTION

Initial Flow:  
Strong blow, Bottom of bucket upon

Initial Shut In:

Bled off 2 in, Had surface blow back

Final Flow:

Strong blow, bottom of bucket upon  
opening tool, {MCF @ 577}

Final Shut In:

Bled off 2 in, Had 1/2 in blow back

SAMPLES:

SENT TO:

MUD DATA-----

| Mud Type | Chemical  |
|----------|-----------|
| Weight   | 8.70 lb/c |
| Vis.     | 43.00 S/L |
| W.L.     | 11.80 in3 |
| F.C.     | 0.00 in   |
| Mud Drop |           |

|                |                 |
|----------------|-----------------|
| Amt. of fill   | 0.00 ft         |
| Btm. H. Temp.  | 110.00 F        |
| Hole Condition |                 |
| % Porosity     | 0.00            |
| Packer Size    | 6.75 in         |
| No. of Packers | 2               |
| Cushion Amt.   | 0.00            |
| Cushion Type   |                 |
| Reversed Out   |                 |
| Tool Chased    |                 |
| Tester         | Mike Colantonio |
| Co. Rep.       | Chuck Schmaltz  |
| Contr.         | Val Energy      |
| Rig #          | 1               |
| Unit #         |                 |
| Pump T.        |                 |

Test Successful: Y

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, L.L.C.  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number: 970021  
Sample From: MLP Young Trust DST 1  
Producer: Hugoton Energy Corp  
Date:  
Time:  
Sampler:  
Source:

Analyzed: 01/14/97  
Pressure:  
Temperature:  
Location: 5-31-34  
County: Seward  
State: Kansas  
Formation: Lansing

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.798  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 46.430 | 0.000 |
| Carbon Dioxide | CO2: 0.168 | 0.000 |
| Methane        | C1: 42.363 | 0.000 |
| Ethane         | C2: 4.362  | 1.167 |
| Propane        | C3: 3.513  | 0.968 |
| Iso Butane     | iC4: 0.532 | 0.174 |
| Normal Butane  | nC4: 0.996 | 0.314 |
| Iso Pentane    | iC5: 0.248 | 0.091 |
| Normal Pentane | nC5: 0.263 | 0.095 |
| Hexanes Plus   | C6+: 0.327 | 0.143 |

TOTAL: 100.000 2.951  
Z Fact: 0.9984  
SP.GR.: 0.8414  
BTU (SAT): 671.2 @ 14.73 psia  
BTU (DRY): 683.1 @ 14.73 psia  
OCTANE RATING: 64.8

COMMENTS:

0.000

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 9098

|                 |                             |                           |                      |                 |                                               |
|-----------------|-----------------------------|---------------------------|----------------------|-----------------|-----------------------------------------------|
| Well Name & No. | <u>MLP Young Trust #4-5</u> | Test No.                  | <u>1</u>             | Date            | <u>1-12-97</u>                                |
| Company         | <u>Hugoton Energy Corp.</u> | Zone Tested               | <u>Leasing</u>       |                 |                                               |
| Address         | <u>Wichita KS.</u>          | Elevation                 | <u>2809</u>          | KB              | <u>2798</u> GL                                |
| Co. Rep / Geo.  | <u>Chuck Schmoltz</u>       | Cont.                     | <u>Val Energy #1</u> | Est. Ft. of Pay | <u>8</u> Por. <u>    </u> %                   |
| Location: Sec.  | <u>5</u>                    | Twp.                      | <u>31S</u>           | Rge.            | <u>34W</u> Co. <u>Seward</u> State <u>KS.</u> |
| No. of Copies   | <u>    </u>                 | Distribution Sheet (Y, N) | <u>    </u>          | Turnkey (Y, N)  | <u>    </u> Evaluation (Y, N) <u>    </u>     |

|                     |                                                                    |                             |                  |                       |               |
|---------------------|--------------------------------------------------------------------|-----------------------------|------------------|-----------------------|---------------|
| Interval Tested     | <u>3986 - 4032</u>                                                 | Initial Str Wt./Lbs.        | <u>45,000</u>    | Unseated Str Wt./Lbs. | <u>45,000</u> |
| Anchor Length       | <u>46'</u>                                                         | Wt. Set Lbs.                | <u>30,000</u>    | Wt. Pulled Loose/Lbs. | <u>55,000</u> |
| Top Packer Depth    | <u>3981</u>                                                        | Hole Size — 7 7/8"          | <u>X</u>         | Rubber Size — 6 3/4"  | <u>X</u>      |
| Bottom Packer Depth | <u>3986</u>                                                        | Wt. Pipe I.D. — 2.7 Ft. Run | <u>    </u>      |                       |               |
| Total Depth         | <u>4032</u>                                                        | Drill Collar — 2.25 Ft. Run | <u>    </u>      |                       |               |
| Mud Wt.             | <u>8.7</u> LCM <u>1</u> Vis. <u>43</u> WL <u>11.8</u>              | Drill Pipe Size             | <u>4 1/2 X 0</u> | Ft. Run               | <u>3966'</u>  |
| Blow Description    | <u>Strong Blow Bld. seen as open tank { 675 3min MCF@ 472 }</u>    |                             |                  |                       |               |
|                     | <u>1st Bleed OFF 2in Had Surface Blow Back</u>                     |                             |                  |                       |               |
|                     | <u>2nd opening Strong Blow Bld. seen as open tank { MCF@ 577 }</u> |                             |                  |                       |               |
|                     | <u>1st Bleed OFF 2in Had 1/2 in Blow Back</u>                      |                             |                  |                       |               |

|                       |             |           |                    |           |             |           |             |
|-----------------------|-------------|-----------|--------------------|-----------|-------------|-----------|-------------|
| Recovery — Total Feet | <u>65</u>   | Ft. in DC | <u>    </u>        | Ft. in WP | <u>    </u> | Ft. in DP | <u>65</u>   |
| Rec.                  | <u>65</u>   | Feet Of   | <u>muddy water</u> | %gas      | <u>    </u> | %oil      | <u>30</u>   |
| Rec.                  | <u>    </u> | Feet Of   | <u>    </u>        | %gas      | <u>    </u> | %oil      | <u>70</u>   |
| Rec.                  | <u>    </u> | Feet Of   | <u>    </u>        | %gas      | <u>    </u> | %oil      | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of   | <u>    </u>        | %gas      | <u>    </u> | %oil      | <u>    </u> |
| Rec.                  | <u>    </u> | Feet Of   | <u>    </u>        | %gas      | <u>    </u> | %oil      | <u>    </u> |

|     |             |            |             |              |              |                      |             |           |              |
|-----|-------------|------------|-------------|--------------|--------------|----------------------|-------------|-----------|--------------|
| BHT | <u>110</u>  | °F Gravity | <u>    </u> | °API D@      | <u>    </u>  | °F Corrected Gravity | <u>    </u> | °API      | <u>    </u>  |
| RW  | <u>1.54</u> | @          | <u>52</u>   | °F Chlorides | <u>5,000</u> | ppm Recovery         | <u>    </u> | Chlorides | <u>3,400</u> |

|                                  |             |     |                 |              |           |                       |
|----------------------------------|-------------|-----|-----------------|--------------|-----------|-----------------------|
| (A) Initial Hydrostatic Mud      | <u>1888</u> | PSI | Recorder No.    | <u>10333</u> | T-Started | <u>11:00 am</u>       |
| (B) First Initial Flow Pressure  | <u>91</u>   | PSI | @ (depth)       | <u>398.3</u> | T-Open    | <u>12:57</u>          |
| (C) First Final Flow Pressure    | <u>121</u>  | PSI | Recorder No.    | <u>2836</u>  | T-Pulled  | <u>4:42</u>           |
| (D) Initial Shut-in Pressure     | <u>1118</u> | PSI | @ (depth)       | <u>4029</u>  | T-Out     | <u>7:00</u>           |
| (E) Second Initial Flow Pressure | <u>142</u>  | PSI | Recorder No.    | <u>    </u>  |           |                       |
| (F) Second Final Flow Pressure   | <u>121</u>  | PSI | @ (depth)       | <u>    </u>  |           |                       |
| (G) Final Shut-in Pressure       | <u>1118</u> | PSI | Initial Opening | <u>30min</u> | Test      | <u>✓ Conventional</u> |
| (H) Final Hydrostatic Mud        | <u>1744</u> | PSI | Initial Shut-in | <u>60min</u> | Jars      | <u>    </u>           |

|               |              |              |             |           |
|---------------|--------------|--------------|-------------|-----------|
| Final Flow    | <u>45min</u> | Safety Joint | <u>✓</u>    | <u>50</u> |
| Final Shut-in | <u>90min</u> | Straddle     | <u>    </u> |           |

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|                    |                        |
|--------------------|------------------------|
| Approved By        | <u>Chuck Schmoltz</u>  |
| Our Representative | <u>Mark Colantonio</u> |

|                |             |              |
|----------------|-------------|--------------|
| Circ. Sub      | <u>✓</u>    | <u>M/C</u>   |
| Sampler        | <u>    </u> |              |
| Extra Packer   | <u>    </u> |              |
| Elect. Rec.    | <u>    </u> |              |
| Other          | <u>    </u> |              |
| TOTAL PRICE \$ | <u>    </u> | <u>\$ 50</u> |

(6)



## GAS VOLUME REPORT

*Hughes Energy Corp.*  
OPERATOR

MLP Young Trust #4-5  
WELL NAME AND NO.

**DST NO.**

|              |             |  |  |
|--------------|-------------|--|--|
| G.T.S. 3 min | 1st opening |  |  |
|--------------|-------------|--|--|

2nd. opening

Remarks:

Gas Will Burn.

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp  
WELL NAME: MLP Young Trust #4-5  
LOCATION : 5-31S-34W Seward KS  
INTERVAL : 4987.00 To 5075.00 ft

DATE 1/15/97  
KB 2809.00 ft TICKET NO: 9099 DST #2  
GR 2798.00 ft FORMATION: Atoka  
TD 5075.00 ft TEST TYPE: CONV

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 10333  | 10333  | 2836   |     |     | PF Fr. 0826 to 0856 hr |
| SI 60 Range(Psi ) | 4075.0 | 4075.0 | 3500.0 | 0.0 | 0.0 | IS Fr. 0856 to 0956 hr |
| SF 45 Clock(hrs)  | 12hr   | 12hr   | 12hr   |     |     | SF Fr. 0956 to 1041 hr |
| FS 90 Depth(ft )  | 4990.0 | 4990.0 | 5073.0 | 0.0 | 0.0 | FS Fr. 1041 to 1211 hr |

|                | Field  | 1      | 2   | 3   | 4   |                               |
|----------------|--------|--------|-----|-----|-----|-------------------------------|
| A. Init Hydro  | 2457.0 | 2474.0 | 0.0 | 0.0 | 0.0 | T STARTED 0630 hr             |
| B. First Flow  | 50.0   | 73.0   | 0.0 | 0.0 | 0.0 | T ON BOTM 0820 hr             |
| B1. Final Flow | 50.0   | 60.0   | 0.0 | 0.0 | 0.0 | T OPEN 0826 hr                |
| C. In Shut-in  | 60.0   | 68.0   | 0.0 | 0.0 | 0.0 | T PULLED 1211 hr              |
| D. Init Flow   | 5.0    | 54.0   | 0.0 | 0.0 | 0.0 | T OUT 1430 hr                 |
| E. Final Flow  | 50.0   | 57.0   | 0.0 | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 50.0   | 66.0   | 0.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2224.0 | 2255.0 | 0.0 | 0.0 | 0.0 | Tool Wt. 0.00 lbs             |
| Inside/Outside | 0      | 0      |     |     |     | Wt Set On Packer 25000.00 lbs |
|                |        |        |     |     |     | Wt Pulled Loose 105000.00 lbs |
|                |        |        |     |     |     | Initial Str Wt 52000.00 lbs   |

RECOVERY

| Tot Fluid | 5.00 ft of         | 0.00 ft in DC and | 5.00 ft in DP |                              |
|-----------|--------------------|-------------------|---------------|------------------------------|
| 5.00      | ft of Drilling Mud |                   |               | Unseated Str Wt 55000.00 lbs |
| 0.00      | ft of              |                   |               | Bot Choke 0.75 in            |
| 0.00      | ft of              |                   |               | Hole Size 7.88 in            |
| 0.00      | ft of              |                   |               | D Col. ID 2.25 in            |
| 0.00      | ft of              |                   |               | D. Pipe ID 3.80 in           |
| 0.00      | ft of              |                   |               | D.C. Length 0.00 ft          |
| 0.00      | ft of              |                   |               | D.P. Length 5047.00 ft       |
| 0.00      | ft of              |                   |               |                              |
| SALINITY  | 0.00 P.P.M.        | A.P.I. Gravity    | 0.00          |                              |

BLOW DESCRIPTION

Initial Flow:  
Weak Blow, Built to 1 inch

Initial Shut In:

Final Flow:

No blow

Final Shut In:

SAMPLES:

SENT TO:

MUD DATA-----

| Mud Type | Chemical  |
|----------|-----------|
| Weight   | 9.00 lb/c |
| Vis.     | 47.00 S/L |
| W.L.     | 8.20 in3  |
| F.C.     | 0.00 in   |
| Mud Drop |           |

Amt. of fill 0.00 ft

Btm. H. Temp. 120.00 F

Hole Condition

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 0

Cushion Amt. 2.00

Cushion Type

Reversed Out

Tool Chased

Tester Mike Colantonio

Co. Rep. Chuck Schmaltz

Contr. Val Energy

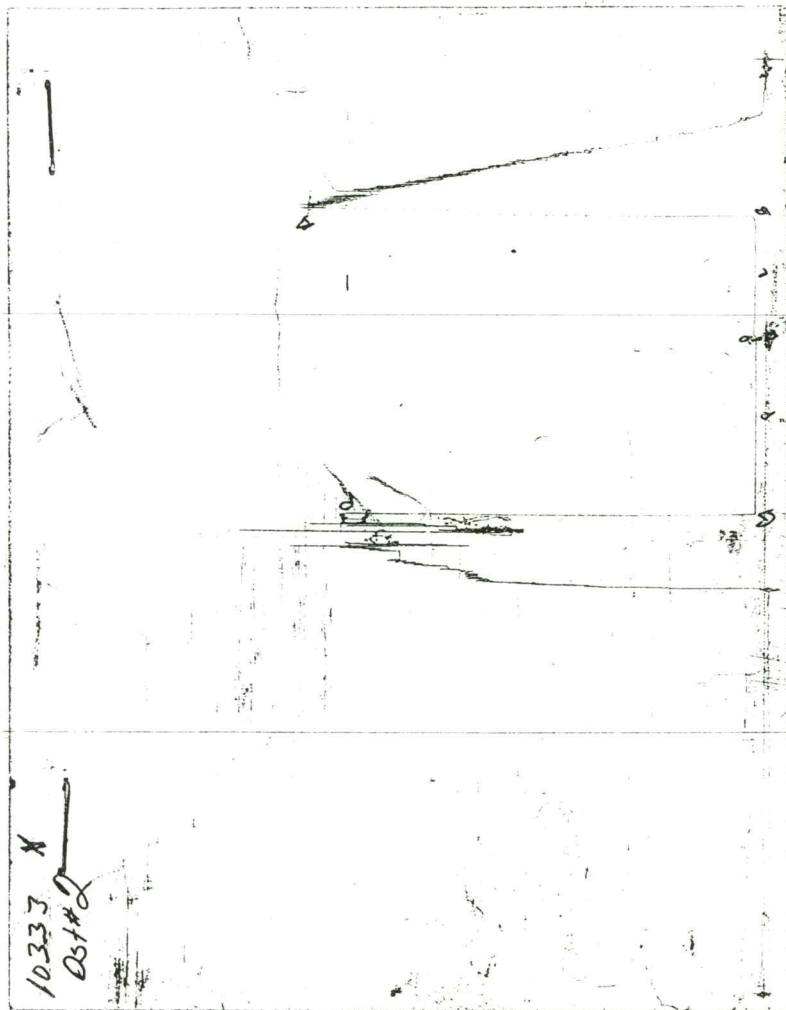
Rig # 1

Unit #

Pump T.

Test Successful: Y

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 9099

|                                                                    |                                         |                                                          |
|--------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>MLP Young Trust #4-5</u>                        | Test No. <u>#2</u>                      | Date <u>1-15-97</u>                                      |
| Company <u>Huyton Energy Corp.</u>                                 | Zone Tested <u>ATOKA</u>                |                                                          |
| Address <u>Wichita KS.</u>                                         | Elevation <u>2809</u> KB <u>2798</u> GL |                                                          |
| Co. Rep / Geo. <u>Chuck Schmitt</u> Cont. <u>VAL Energy Rig #1</u> | Est. Ft. of Pay <u>5</u>                | Por. <u>    </u> %                                       |
| Location: Sec. <u>E</u> Twp. <u>31S</u> Rge. <u>34W</u>            | Co. <u>Seward</u>                       | State <u>KS</u>                                          |
| No. of Copies <u>    </u>                                          | Distribution Sheet (Y, N) <u>    </u>   | Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u> |

Interval Tested 4987-5075  
 Anchor Length 88'  
 Top Packer Depth 4982  
 Bottom Packer Depth 4987  
 Total Depth 5075  
 Mud Wt. 9.0 LCM 1 Vis. 47 WL 8.2  
 Blow Description Weak Blow Built to Lin.

Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 55,000  
 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 105,000  
 Hole Size — 7 7/8" X Rubber Size — 6 3/4" X  
 Wt. Pipe I.D. — 2.7 Ft. Run       
 Drill Collar — 2.25 Ft. Run       
 Drill Pipe Size 4 1/2 X-0 Ft. Run 5047

2nd running No Blow

|                                      |                       |                       |                                     |
|--------------------------------------|-----------------------|-----------------------|-------------------------------------|
| Recovery — Total Feet <u>5</u>       | Ft. in DC <u>    </u> | Ft. in WP <u>    </u> | Ft. in DP <u>5</u>                  |
| Rec. <u>5</u> Feet Of <u>Alg mud</u> | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>100</u> %mud <u>    </u>  |
| Rec. <u>    </u> Feet Of <u>    </u> | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>    </u> Feet Of <u>    </u> | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>    </u> Feet Of <u>    </u> | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>    </u> Feet Of <u>    </u> | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |

BHT 120 °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 2,300 ppm System  
 (A) Initial Hydrostatic Mud 2157 PSI Recorder No. 10333 T-Started 6:30 pm  
 (B) First Initial Flow Pressure 50 PSI @ (depth) 4990 T-Open 8:26 pm  
 (C) First Final Flow Pressure 50 PSI Recorder No. 2836 T-Pulled 12:11 pm  
 (D) Initial Shut-in Pressure 60 PSI @ (depth) 5073 T-Out 2:30 pm  
 (E) Second Initial Flow Pressure 5 PSI Recorder No.       
 (F) Second Final Flow Pressure 50 PSI @ (depth)       
 (G) Final Shut-in Pressure 50 PSI Initial Opening 30 min Test Conventional 800  
 (H) Final Hydrostatic Mud 2224 PSI Initial Shut-in 60 min Jars     

Final Flow 45 min Safety Joint      50  
 Final Shut-in 90 min Straddle       
 Circ. Sub      N/C  
 Sampler       
 Extra Packer       
 Elect. Rec.       
 Other       
 TOTAL PRICE \$ 850

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]  
 Our Representative [Signature]

# TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.

DATE 1-17-97

WELL NAME: MLP Young Trust #4-5

KB 2809.00 ft

TICKET NO: 9100

DST #3

LOCATION : 5-31S-34W

GR 2798.00 ft

FORMATION: Chester

INTERVAL : 5410.00 To 5486.00 ft

TD 5486.00 ft

TEST TYPE: CONV

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 2836   | 2836   | 2346   |     |     | PF Fr. 1342 to 1412 hr |
| SI 60 Range(Psi ) | 3500.0 | 3500.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 1412 to 1512 hr |
| SF 60 Clock(hrs)  | 12HR.  | 12HR.  | Elec   |     |     | SF Fr. 1512 to 1612 hr |
| FS 120 Depth(ft ) | 5483.0 | 5483.0 | 5413.0 | 0.0 | 0.0 | FS Fr. 1612 to 1812 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2658.0 | 2562.0 | 2634.0 | 0.0 | 0.0 | T STARTED 1145 hr             |
| B. First Flow  | 51.0   | 75.0   | 25.0   | 0.0 | 0.0 | T ON BOTM 1340 hr             |
| B1. Final Flow | 51.0   | 63.0   | 35.0   | 0.0 | 0.0 | T OPEN 1342 hr                |
| C. In Shut-in  | 385.0  | 383.0  | 440.0  | 0.0 | 0.0 | T PULLED 1812 hr              |
| D. Init Flow   | 77.0   | 101.0  | 45.0   | 0.0 | 0.0 | T OUT 2030 hr                 |
| E. Final Flow  | 77.0   | 92.0   | 56.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 385.0  | 392.0  | 437.0  | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2440.0 | 2409.0 | 2477.0 | 0.0 | 0.0 | Tool Wt. 1800.00 lbs          |
| Inside/Outside | 0      | 0      | I      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 65000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 55000.00 lbs   |

## RECOVERY

|           |                            |                        |                |                 |              |
|-----------|----------------------------|------------------------|----------------|-----------------|--------------|
| Tot Fluid | 90.00 ft of                | 0.00 ft in DC and      | 90.00 ft in DP | Unseated Str Wt | 60000.00 lbs |
| 810.00    | ft of Gas in Pipe          |                        |                | Bot Choke       | 0.75 in      |
| 0.00      | ft of                      |                        |                | Hole Size       | 7.88 in      |
| 30.00     | ft of Slight Oil Cut Mud   | 10%Oil 90%Mud          |                | D Col. ID       | 2.25 in      |
| 0.00      | ft of                      |                        |                | D. Pipe ID      | 0.00 in      |
| 60.00     | ft of Slight Gas & Oil Cut | Mud 7%Gas 3%Oil 90%Mud |                | D.C. Length     | 0.00 ft      |
| 0.00      | ft of                      |                        |                | D.P. Length     | 5450.00 ft   |
| 0.00      | ft of                      |                        |                |                 |              |
| 0.00      | ft of                      |                        |                |                 |              |
| SALINITY  | 0.00 P.P.M.                | A.P.I. Gravity         | 0.00           |                 |              |

## BLOW DESCRIPTION

Initial Flow:

Fair blow, built to bottom of bucket  
in 14 mins

Initial Shut In:

Bled off 2 inches, .5 inch blow back

Final Flow:

Strong blow bottom of bucket soon as  
open tool

Final Shut In:

Bled off 2 inches, 1 inch blow back

SAMPLES: NO

SENT TO:

## MUD DATA-----

|            |           |
|------------|-----------|
| Mud Type   | Chemical  |
| Weight     | 9.20 lb/c |
| Vis.       | 52.00 S/L |
| W.L.       | 8.40 in3  |
| F.C.       | 0.00 in   |
| Mud Drop N |           |

Amt. of fill 0.00 ft

Btm. H. Temp. 121.00 F

Hole Condition Good

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out N

Tool Chased N

Tester Mike Colantonio

Co. Rep. Chuck Schmaltz

Contr. Val Energy

Rig # 1

Unit #

Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: MLP Young Trust #4-5

LOCATION : 5-31S-34W

TICKET No. 9100 D.S.T. No. 3 DATE 1-17-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 22ft

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 20ft.

TOTAL TOOL ..... 42ft

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 61ft

TOTAL ASSEMBLY ..... 103

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands87 Single Total 5389ft

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5492ft

TOTAL DEPTH ..... 5486ft

TOTAL DRILL PIPE ABOVE K.B. .... 6ft

REMARKS:

|                     |      |
|---------------------|------|
| P.O. SUB Top Tool @ | 5383 |
| C.O. SUB 1ft Sub    | 5384 |
| S.I. TOOL 5ft       | 5389 |
| HMV 5ft             | 5394 |
| JARS 5ft            | 5399 |
| SAFETY JOINT 1ft    | 5400 |
| PACKER 5ft          | 5405 |
| PACKER 5ft          | 5410 |
| DEPTH               |      |
| STUBB 1ft           | 5411 |
| ANCHOR              |      |
| 1ft Perf            | 5412 |
| Alpine Rec.         | 5413 |
| 6ft P.U. Sub        | 5418 |
| T.C.                |      |
| DEPTH               |      |
| 2ft Perf            | 5420 |
| 63ft Drlg Pipe Sub  | 5483 |
| AK-1 Rec.           | 5483 |
| BULLNOSE            |      |
| T.D. 3ft Bullplug   | 5486 |

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9100 DST#3 MLP Young Trust #4-5 Hugoton Energy Corp.  
 DATE: 01/17/97 TIME: 13:08:00  
 -----

|                      | Time   | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|--------|------------------|-----------------|----------------|-----------|----------|
| ***** Initial Hydro. | 119.00 | 2634.0           | 0.0             | 104.30         |           |          |
| ***** Start Flow 1   | 0.00   | 25.3             | 0.0             | 104.68         |           |          |
|                      | 1.00   | 27.5             | 2.2             | 104.91         |           |          |
|                      | 2.00   | 27.0             | 1.8             | 104.97         |           |          |
|                      | 3.00   | 27.3             | 2.0             | 104.94         |           |          |
|                      | 4.00   | 27.1             | 1.9             | 104.93         |           |          |
|                      | 5.00   | 27.5             | 2.2             | 104.94         |           |          |
|                      | 6.00   | 28.2             | 2.9             | 105.01         |           |          |
|                      | 7.00   | 29.2             | 3.9             | 105.12         |           |          |
|                      | 8.00   | 29.8             | 4.5             | 105.26         |           |          |
|                      | 9.00   | 30.4             | 5.2             | 105.45         |           |          |
|                      | 10.00  | 30.2             | 4.9             | 105.66         |           |          |
|                      | 11.00  | 30.4             | 5.2             | 105.89         |           |          |
|                      | 12.00  | 31.1             | 5.8             | 106.15         |           |          |
|                      | 13.00  | 31.3             | 6.1             | 106.42         |           |          |
|                      | 14.00  | 31.6             | 6.4             | 106.72         |           |          |
|                      | 15.00  | 32.1             | 6.8             | 107.02         |           |          |
|                      | 16.00  | 32.2             | 6.9             | 107.33         |           |          |
|                      | 17.00  | 32.6             | 7.3             | 107.66         |           |          |
|                      | 18.00  | 33.0             | 7.8             | 107.99         |           |          |
|                      | 19.00  | 33.2             | 7.9             | 108.32         |           |          |
|                      | 20.00  | 33.9             | 8.6             | 108.66         |           |          |
|                      | 21.00  | 33.6             | 8.3             | 108.99         |           |          |
|                      | 22.00  | 34.0             | 8.7             | 109.33         |           |          |
|                      | 23.00  | 34.3             | 9.0             | 109.66         |           |          |
|                      | 24.00  | 34.4             | 9.1             | 109.99         |           |          |
| ***** End Flow 1     | 25.00  | 34.7             | 9.5             | 110.32         |           |          |
| ***** Start Shutin 1 | 0.00   | 34.7             | 0.0             | 110.32         | 0.0000    | 0.001    |
|                      | 1.00   | 35.2             | 0.5             | 110.65         | 26.0000   | 0.001    |
|                      | 2.00   | 35.6             | 0.9             | 110.98         | 13.5000   | 0.001    |
|                      | 3.00   | 35.9             | 1.2             | 111.31         | 9.3333    | 0.001    |
|                      | 4.00   | 35.6             | 0.9             | 111.63         | 7.2500    | 0.001    |
|                      | 5.00   | 37.5             | 2.8             | 111.94         | 6.0000    | 0.001    |
|                      | 6.00   | 45.0             | 10.3            | 112.25         | 5.1667    | 0.002    |
|                      | 7.00   | 51.8             | 17.0            | 112.55         | 4.5714    | 0.003    |
|                      | 8.00   | 58.1             | 23.4            | 112.85         | 4.1250    | 0.003    |
|                      | 9.00   | 62.3             | 27.6            | 113.15         | 3.7778    | 0.004    |
|                      | 10.00  | 68.3             | 33.6            | 113.44         | 3.5000    | 0.005    |
|                      | 11.00  | 74.2             | 39.5            | 113.72         | 3.2727    | 0.006    |
|                      | 12.00  | 80.2             | 45.4            | 114.00         | 3.0833    | 0.006    |
|                      | 13.00  | 86.0             | 51.2            | 114.28         | 2.9231    | 0.007    |
|                      | 14.00  | 91.8             | 57.0            | 114.54         | 2.7857    | 0.008    |
|                      | 15.00  | 97.6             | 62.8            | 114.81         | 2.6667    | 0.01     |
|                      | 16.00  | 103.4            | 68.7            | 115.06         | 2.5625    | 0.011    |
|                      | 17.00  | 109.4            | 74.7            | 115.31         | 2.4706    | 0.012    |
|                      | 18.00  | 115.5            | 80.8            | 115.56         | 2.3889    | 0.013    |
|                      | 19.00  | 121.9            | 87.1            | 115.80         | 2.3158    | 0.015    |
|                      | 20.00  | 128.1            | 93.4            | 116.03         | 2.2500    | 0.016    |
|                      | 21.00  | 134.4            | 99.7            | 116.26         | 2.1905    | 0.018    |
|                      | 22.00  | 140.6            | 105.9           | 116.48         | 2.1364    | 0.020    |
|                      | 23.00  | 146.9            | 112.2           | 116.69         | 2.0870    | 0.022    |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9100 DST#3 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/17/97

TIME: 13:08:00

|                     | Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|---------------------|-------|------------------|-----------------|----------------|-----------|----------|
|                     | 24.00 | 153.1            | 118.4           | 116.91         | 2.0417    | 0.023    |
|                     | 25.00 | 159.4            | 124.6           | 117.10         | 2.0000    | 0.025    |
|                     | 26.00 | 165.6            | 130.9           | 117.30         | 1.9615    | 0.027    |
|                     | 27.00 | 172.0            | 137.2           | 117.49         | 1.9259    | 0.030    |
|                     | 28.00 | 178.3            | 143.5           | 117.67         | 1.8929    | 0.032    |
|                     | 29.00 | 184.6            | 149.9           | 117.86         | 1.8621    | 0.034    |
|                     | 30.00 | 190.9            | 156.2           | 118.05         | 1.8333    | 0.036    |
|                     | 31.00 | 197.4            | 162.7           | 118.21         | 1.8065    | 0.039    |
|                     | 32.00 | 203.9            | 169.2           | 118.41         | 1.7812    | 0.042    |
|                     | 33.00 | 210.5            | 175.7           | 118.52         | 1.7576    | 0.044    |
|                     | 34.00 | 217.0            | 182.2           | 118.67         | 1.7353    | 0.047    |
|                     | 35.00 | 223.5            | 188.8           | 118.83         | 1.7143    | 0.050    |
|                     | 36.00 | 230.1            | 195.3           | 118.97         | 1.6944    | 0.053    |
|                     | 37.00 | 236.7            | 201.9           | 119.13         | 1.6757    | 0.056    |
|                     | 38.00 | 243.4            | 208.6           | 119.26         | 1.6579    | 0.059    |
|                     | 39.00 | 250.0            | 215.3           | 119.39         | 1.6410    | 0.063    |
|                     | 40.00 | 256.9            | 222.2           | 119.53         | 1.6250    | 0.066    |
|                     | 41.00 | 263.7            | 229.0           | 119.65         | 1.6098    | 0.070    |
|                     | 42.00 | 270.6            | 235.9           | 119.77         | 1.5952    | 0.073    |
|                     | 43.00 | 277.5            | 242.8           | 119.89         | 1.5814    | 0.077    |
|                     | 44.00 | 284.5            | 249.7           | 120.01         | 1.5682    | 0.081    |
|                     | 45.00 | 291.4            | 256.7           | 120.12         | 1.5556    | 0.085    |
|                     | 46.00 | 298.5            | 263.8           | 120.24         | 1.5435    | 0.089    |
|                     | 47.00 | 305.6            | 270.8           | 120.34         | 1.5319    | 0.093    |
|                     | 48.00 | 312.7            | 278.0           | 120.44         | 1.5208    | 0.098    |
|                     | 49.00 | 319.8            | 285.1           | 120.54         | 1.5102    | 0.102    |
|                     | 50.00 | 327.2            | 292.5           | 120.63         | 1.5000    | 0.107    |
|                     | 51.00 | 334.4            | 299.7           | 120.74         | 1.4902    | 0.112    |
|                     | 52.00 | 341.8            | 307.1           | 120.84         | 1.4808    | 0.117    |
|                     | 53.00 | 349.1            | 314.3           | 120.92         | 1.4717    | 0.122    |
|                     | 54.00 | 356.4            | 321.7           | 121.02         | 1.4630    | 0.127    |
|                     | 55.00 | 363.7            | 329.0           | 121.10         | 1.4545    | 0.132    |
|                     | 56.00 | 371.4            | 336.7           | 121.18         | 1.4464    | 0.138    |
|                     | 57.00 | 378.9            | 344.1           | 121.26         | 1.4386    | 0.144    |
|                     | 58.00 | 386.6            | 351.8           | 121.33         | 1.4310    | 0.149    |
|                     | 59.00 | 394.3            | 359.6           | 121.42         | 1.4237    | 0.155    |
|                     | 60.00 | 402.0            | 367.3           | 121.49         | 1.4167    | 0.162    |
|                     | 61.00 | 409.8            | 375.1           | 121.57         | 1.4098    | 0.168    |
|                     | 62.00 | 417.7            | 382.9           | 121.63         | 1.4032    | 0.174    |
|                     | 63.00 | 425.5            | 390.8           | 121.70         | 1.3968    | 0.181    |
|                     | 64.00 | 433.3            | 398.6           | 121.77         | 1.3906    | 0.188    |
|                     | 65.00 | 440.5            | 405.7           | 121.84         | 1.3846    | 0.194    |
| ***** End Shut-in 1 |       |                  |                 |                |           |          |
| ***** Start Flow 2  | 0.00  | 45.1             | 0.0             | 121.89         |           |          |
|                     | 1.00  | 46.4             | 1.3             | 121.95         |           |          |
|                     | 2.00  | 48.2             | 3.1             | 122.00         |           |          |
|                     | 3.00  | 48.5             | 3.4             | 122.07         |           |          |
|                     | 4.00  | 48.8             | 3.7             | 122.17         |           |          |
|                     | 5.00  | 49.2             | 4.1             | 122.31         |           |          |
|                     | 6.00  | 49.5             | 4.4             | 122.51         |           |          |
|                     | 7.00  | 50.1             | 5.0             | 122.75         |           |          |
|                     | 8.00  | 51.0             | 5.9             | 122.99         |           |          |

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9100 DST#3 MLP Young Trust #4-5 Hugoton Energy Corp.  
 DATE: 01/17/97 TIME: 13:08:00  
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| Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|-------|------------------|-----------------|----------------|-----------|----------|
| 9.00  | 51.6             | 6.5             | 123.24         |           |          |
| 10.00 | 51.4             | 6.3             | 123.46         |           |          |
| 11.00 | 51.2             | 6.1             | 123.66         |           |          |
| 12.00 | 50.7             | 5.6             | 123.81         |           |          |
| 13.00 | 51.2             | 6.1             | 123.95         |           |          |
| 14.00 | 50.5             | 5.4             | 124.07         |           |          |
| 15.00 | 50.3             | 5.3             | 124.17         |           |          |
| 16.00 | 50.8             | 5.7             | 124.24         |           |          |
| 17.00 | 52.3             | 7.2             | 124.33         |           |          |
| 18.00 | 52.3             | 7.2             | 124.40         |           |          |
| 19.00 | 52.7             | 7.6             | 124.46         |           |          |
| 20.00 | 51.3             | 6.3             | 124.50         |           |          |
| 21.00 | 51.1             | 6.0             | 124.56         |           |          |
| 22.00 | 52.5             | 7.5             | 124.60         |           |          |
| 23.00 | 51.1             | 6.0             | 124.65         |           |          |
| 24.00 | 50.8             | 5.7             | 124.70         |           |          |
| 25.00 | 51.0             | 5.9             | 124.74         |           |          |
| 26.00 | 51.7             | 6.6             | 124.77         |           |          |
| 27.00 | 51.1             | 6.0             | 124.82         |           |          |
| 28.00 | 51.3             | 6.2             | 124.86         |           |          |
| 29.00 | 51.6             | 6.5             | 124.89         |           |          |
| 30.00 | 51.8             | 6.7             | 124.93         |           |          |
| 31.00 | 52.7             | 7.6             | 124.97         |           |          |
| 32.00 | 51.8             | 6.7             | 125.01         |           |          |
| 33.00 | 52.1             | 7.0             | 125.04         |           |          |
| 34.00 | 52.5             | 7.4             | 125.08         |           |          |
| 35.00 | 51.9             | 6.8             | 125.12         |           |          |
| 36.00 | 52.7             | 7.6             | 125.16         |           |          |
| 37.00 | 52.7             | 7.6             | 125.19         |           |          |
| 38.00 | 52.2             | 7.2             | 125.23         |           |          |
| 39.00 | 52.9             | 7.8             | 125.27         |           |          |
| 40.00 | 53.0             | 7.9             | 125.30         |           |          |
| 41.00 | 54.3             | 9.3             | 125.34         |           |          |
| 42.00 | 52.6             | 7.5             | 125.38         |           |          |
| 43.00 | 52.7             | 7.6             | 125.41         |           |          |
| 44.00 | 52.7             | 7.6             | 125.44         |           |          |
| 45.00 | 52.5             | 7.5             | 125.49         |           |          |
| 46.00 | 54.4             | 9.4             | 125.52         |           |          |
| 47.00 | 55.0             | 10              | 125.55         |           |          |
| 48.00 | 53.8             | 8.7             | 125.59         |           |          |
| 49.00 | 53.5             | 8.4             | 125.63         |           |          |
| 50.00 | 53.8             | 8.8             | 125.66         |           |          |
| 51.00 | 53.8             | 8.8             | 125.70         |           |          |
| 52.00 | 55.1             | 10.1            | 125.73         |           |          |
| 53.00 | 55.7             | 10.7            | 125.78         |           |          |
| 54.00 | 54.4             | 9.4             | 125.81         |           |          |
| 55.00 | 55.9             | 10.8            | 125.86         |           |          |
| 56.00 | 54.3             | 9.2             | 125.89         |           |          |
| 57.00 | 55.2             | 10.1            | 125.93         |           |          |
| 58.00 | 56.4             | 11.3            | 125.97         |           |          |
| 59.00 | 56.2             | 11.2            | 126.00         |           |          |

\*\*\*\*\* End Flow 2

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9100 DST#3 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/17/97

TIME: 13:08:00

|                      | Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|-------|------------------|-----------------|----------------|-----------|----------|
| ***** Start Shutin 2 | 0.00  | 56.2             | 0.0             | 126.00         | 0.0000    | 0.003    |
|                      | 1.00  | 60.1             | 3.9             | 126.05         | 85.0000   | 0.004    |
|                      | 2.00  | 63.7             | 7.5             | 126.09         | 43.0000   | 0.004    |
|                      | 3.00  | 67.2             | 11.0            | 126.12         | 29.0000   | 0.005    |
|                      | 4.00  | 70.6             | 14.4            | 126.17         | 22.0000   | 0.005    |
|                      | 5.00  | 74.0             | 17.8            | 126.20         | 17.8000   | 0.005    |
|                      | 6.00  | 77.3             | 21.0            | 126.26         | 15.0000   | 0.006    |
|                      | 7.00  | 80.6             | 24.3            | 126.31         | 13.0000   | 0.006    |
|                      | 8.00  | 83.8             | 27.6            | 126.35         | 11.5000   | 0.007    |
|                      | 9.00  | 87.1             | 30.9            | 126.41         | 10.3333   | 0.008    |
|                      | 10.00 | 90.3             | 34.1            | 126.45         | 9.4000    | 0.008    |
|                      | 11.00 | 93.5             | 37.3            | 126.50         | 8.6364    | 0.009    |
|                      | 12.00 | 96.7             | 40.5            | 126.56         | 8.0000    | 0.009    |
|                      | 13.00 | 100              | 43.8            | 126.60         | 7.4615    | 0.01     |
|                      | 14.00 | 103.1            | 46.9            | 126.65         | 7.0000    | 0.011    |
|                      | 15.00 | 106.3            | 50.0            | 126.70         | 6.6000    | 0.011    |
|                      | 16.00 | 109.5            | 53.3            | 126.75         | 6.2500    | 0.012    |
|                      | 17.00 | 112.7            | 56.5            | 126.80         | 5.9412    | 0.013    |
|                      | 18.00 | 115.9            | 59.7            | 126.84         | 5.6667    | 0.013    |
|                      | 19.00 | 119.0            | 62.7            | 126.89         | 5.4211    | 0.014    |
|                      | 20.00 | 122.2            | 65.9            | 126.94         | 5.2000    | 0.015    |
|                      | 21.00 | 125.4            | 69.2            | 126.98         | 5.0000    | 0.016    |
|                      | 22.00 | 128.5            | 72.3            | 127.03         | 4.8182    | 0.017    |
|                      | 23.00 | 131.8            | 75.6            | 127.07         | 4.6522    | 0.017    |
|                      | 24.00 | 134.9            | 78.7            | 127.11         | 4.5000    | 0.018    |
|                      | 25.00 | 138.1            | 81.9            | 127.15         | 4.3600    | 0.019    |
|                      | 26.00 | 141.3            | 85.1            | 127.20         | 4.2308    | 0.020    |
|                      | 27.00 | 144.5            | 88.3            | 127.24         | 4.1111    | 0.021    |
|                      | 28.00 | 147.7            | 91.4            | 127.27         | 4.0000    | 0.022    |
|                      | 29.00 | 150.8            | 94.6            | 127.29         | 3.8966    | 0.023    |
|                      | 30.00 | 154.0            | 97.8            | 127.32         | 3.8000    | 0.024    |
|                      | 31.00 | 157.2            | 100.9           | 127.34         | 3.7097    | 0.025    |
|                      | 32.00 | 160.3            | 104.1           | 127.36         | 3.6250    | 0.026    |
|                      | 33.00 | 163.5            | 107.3           | 127.37         | 3.5455    | 0.027    |
|                      | 34.00 | 166.7            | 110.5           | 127.38         | 3.4706    | 0.028    |
|                      | 35.00 | 169.9            | 113.7           | 127.40         | 3.4000    | 0.029    |
|                      | 36.00 | 173.1            | 116.9           | 127.42         | 3.3333    | 0.030    |
|                      | 37.00 | 176.3            | 120.1           | 127.43         | 3.2703    | 0.031    |
|                      | 38.00 | 179.6            | 123.4           | 127.45         | 3.2105    | 0.032    |
|                      | 39.00 | 182.9            | 126.7           | 127.47         | 3.1538    | 0.033    |
|                      | 40.00 | 186.1            | 129.9           | 127.50         | 3.1000    | 0.035    |
|                      | 41.00 | 189.3            | 133.1           | 127.53         | 3.0488    | 0.036    |
|                      | 42.00 | 192.7            | 136.4           | 127.56         | 3.0000    | 0.037    |
|                      | 43.00 | 196.0            | 139.7           | 127.60         | 2.9535    | 0.038    |
|                      | 44.00 | 199.3            | 143.0           | 127.63         | 2.9091    | 0.040    |
|                      | 45.00 | 202.5            | 146.3           | 127.66         | 2.8667    | 0.041    |
|                      | 46.00 | 205.8            | 149.6           | 127.69         | 2.8261    | 0.042    |
|                      | 47.00 | 209.1            | 152.8           | 127.73         | 2.7872    | 0.044    |
|                      | 48.00 | 212.4            | 156.2           | 127.77         | 2.7500    | 0.045    |
|                      | 49.00 | 215.7            | 159.5           | 127.80         | 2.7143    | 0.047    |
|                      | 50.00 | 219.1            | 162.9           | 127.83         | 2.6800    | 0.048    |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9100 DST#3 MLP Young Trust #4-5 Hugoton Energy Corp.  
 DATE: 01/17/97 TIME: 13:08:00  
 -----

| Time   | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|--------|------------------|-----------------|----------------|-----------|----------|
| 51.00  | 222.4            | 166.1           | 127.86         | 2.6471    | 0.049    |
| 52.00  | 225.8            | 169.5           | 127.89         | 2.6154    | 0.051    |
| 53.00  | 229.0            | 172.8           | 127.92         | 2.5849    | 0.052    |
| 54.00  | 232.4            | 176.1           | 127.96         | 2.5556    | 0.054    |
| 55.00  | 235.7            | 179.4           | 127.99         | 2.5273    | 0.056    |
| 56.00  | 238.9            | 182.7           | 128.01         | 2.5000    | 0.057    |
| 57.00  | 242.3            | 186.1           | 128.04         | 2.4737    | 0.059    |
| 58.00  | 245.7            | 189.5           | 128.07         | 2.4483    | 0.060    |
| 59.00  | 249.0            | 192.8           | 128.10         | 2.4237    | 0.062    |
| 60.00  | 252.4            | 196.2           | 128.12         | 2.4000    | 0.064    |
| 61.00  | 255.8            | 199.6           | 128.15         | 2.3770    | 0.065    |
| 62.00  | 259.2            | 203.0           | 128.17         | 2.3548    | 0.067    |
| 63.00  | 262.6            | 206.4           | 128.19         | 2.3333    | 0.069    |
| 64.00  | 266.1            | 209.9           | 128.21         | 2.3125    | 0.071    |
| 65.00  | 269.6            | 213.4           | 128.24         | 2.2923    | 0.073    |
| 66.00  | 272.9            | 216.7           | 128.26         | 2.2727    | 0.074    |
| 67.00  | 276.4            | 220.2           | 128.28         | 2.2537    | 0.076    |
| 68.00  | 279.7            | 223.5           | 128.30         | 2.2353    | 0.078    |
| 69.00  | 283.2            | 226.9           | 128.33         | 2.2174    | 0.080    |
| 70.00  | 286.6            | 230.4           | 128.35         | 2.2000    | 0.082    |
| 71.00  | 290.0            | 233.8           | 128.36         | 2.1831    | 0.084    |
| 72.00  | 293.4            | 237.2           | 128.38         | 2.1667    | 0.086    |
| 73.00  | 297.0            | 240.7           | 128.40         | 2.1507    | 0.088    |
| 74.00  | 300.5            | 244.2           | 128.42         | 2.1351    | 0.090    |
| 75.00  | 304.0            | 247.8           | 128.44         | 2.1200    | 0.092    |
| 76.00  | 307.4            | 251.2           | 128.45         | 2.1053    | 0.095    |
| 77.00  | 310.8            | 254.6           | 128.47         | 2.0909    | 0.097    |
| 78.00  | 314.2            | 258.0           | 128.48         | 2.0769    | 0.099    |
| 79.00  | 317.7            | 261.4           | 128.51         | 2.0633    | 0.101    |
| 80.00  | 321.0            | 264.8           | 128.53         | 2.0500    | 0.103    |
| 81.00  | 324.5            | 268.2           | 128.56         | 2.0370    | 0.105    |
| 82.00  | 327.8            | 271.5           | 128.58         | 2.0244    | 0.107    |
| 83.00  | 331.2            | 274.9           | 128.61         | 2.0120    | 0.110    |
| 84.00  | 334.3            | 278.1           | 128.62         | 2.0000    | 0.112    |
| 85.00  | 337.6            | 281.3           | 128.63         | 1.9882    | 0.114    |
| 86.00  | 340.8            | 284.5           | 128.66         | 1.9767    | 0.116    |
| 87.00  | 344.1            | 287.8           | 128.69         | 1.9655    | 0.118    |
| 88.00  | 347.2            | 291.0           | 128.70         | 1.9545    | 0.121    |
| 89.00  | 350.6            | 294.4           | 128.72         | 1.9438    | 0.123    |
| 90.00  | 353.8            | 297.5           | 128.74         | 1.9333    | 0.125    |
| 91.00  | 357.0            | 300.7           | 128.75         | 1.9231    | 0.127    |
| 92.00  | 360.1            | 303.9           | 128.77         | 1.9130    | 0.130    |
| 93.00  | 363.2            | 307.0           | 128.79         | 1.9032    | 0.132    |
| 94.00  | 366.3            | 310.1           | 128.81         | 1.8936    | 0.134    |
| 95.00  | 369.3            | 313.1           | 128.83         | 1.8842    | 0.136    |
| 96.00  | 372.3            | 316.1           | 128.85         | 1.8750    | 0.139    |
| 97.00  | 375.2            | 319.0           | 128.85         | 1.8660    | 0.141    |
| 98.00  | 378.4            | 322.1           | 128.88         | 1.8571    | 0.143    |
| 99.00  | 381.4            | 325.2           | 128.89         | 1.8485    | 0.145    |
| 100.00 | 384.5            | 328.3           | 128.91         | 1.8400    | 0.148    |
| 101.00 | 387.5            | 331.3           | 128.93         | 1.8317    | 0.150    |

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9100 DST#3 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/17/97

TIME: 13:08:00  
 -----

|                     | Time   | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|---------------------|--------|------------------|-----------------|----------------|-----------|----------|
|                     | 102.00 | 390.5            | 334.3           | 128.95         | 1.8235    | 0.152    |
|                     | 103.00 | 393.5            | 337.2           | 128.97         | 1.8155    | 0.155    |
|                     | 104.00 | 396.3            | 340.1           | 128.98         | 1.8077    | 0.157    |
|                     | 105.00 | 399.3            | 343.0           | 128.99         | 1.8000    | 0.159    |
|                     | 106.00 | 402.1            | 345.9           | 129.01         | 1.7925    | 0.162    |
|                     | 107.00 | 405.1            | 348.9           | 129.03         | 1.7850    | 0.164    |
|                     | 108.00 | 407.9            | 351.7           | 129.03         | 1.7778    | 0.166    |
|                     | 109.00 | 410.8            | 354.5           | 129.07         | 1.7706    | 0.169    |
|                     | 110.00 | 413.6            | 357.4           | 129.10         | 1.7636    | 0.171    |
|                     | 111.00 | 416.2            | 360.0           | 129.11         | 1.7568    | 0.173    |
|                     | 112.00 | 419.0            | 362.7           | 129.13         | 1.7500    | 0.176    |
|                     | 113.00 | 421.6            | 365.4           | 129.14         | 1.7434    | 0.178    |
|                     | 114.00 | 424.2            | 368.0           | 129.16         | 1.7368    | 0.180    |
|                     | 115.00 | 426.9            | 370.7           | 129.19         | 1.7304    | 0.182    |
|                     | 116.00 | 429.4            | 373.2           | 129.21         | 1.7241    | 0.184    |
|                     | 117.00 | 432.1            | 375.9           | 129.23         | 1.7179    | 0.187    |
|                     | 118.00 | 434.6            | 378.3           | 129.25         | 1.7119    | 0.189    |
| ***** End Shut-in 2 | 119.00 | 437.0            | 380.8           | 129.27         | 1.7059    | 0.191    |
| ***** Final Hydro.  | 390.00 | 2477.6           | 0.0             | 129.33         |           |          |

# TEST HISTORY

9100 DST#3 MLP Young Trust #4-5 Hugoton Energy Corp.

Flag Points

t(Min.) P(PSIg)

A: 0.00 2634.01  
B: 0.00 25.28  
C: 25.00 34.73  
D: 65.00 440.46  
E: 0.00 45.07  
F: 59.00 56.22  
G: 119.00 437.04  
Q: 0.00 2477.61

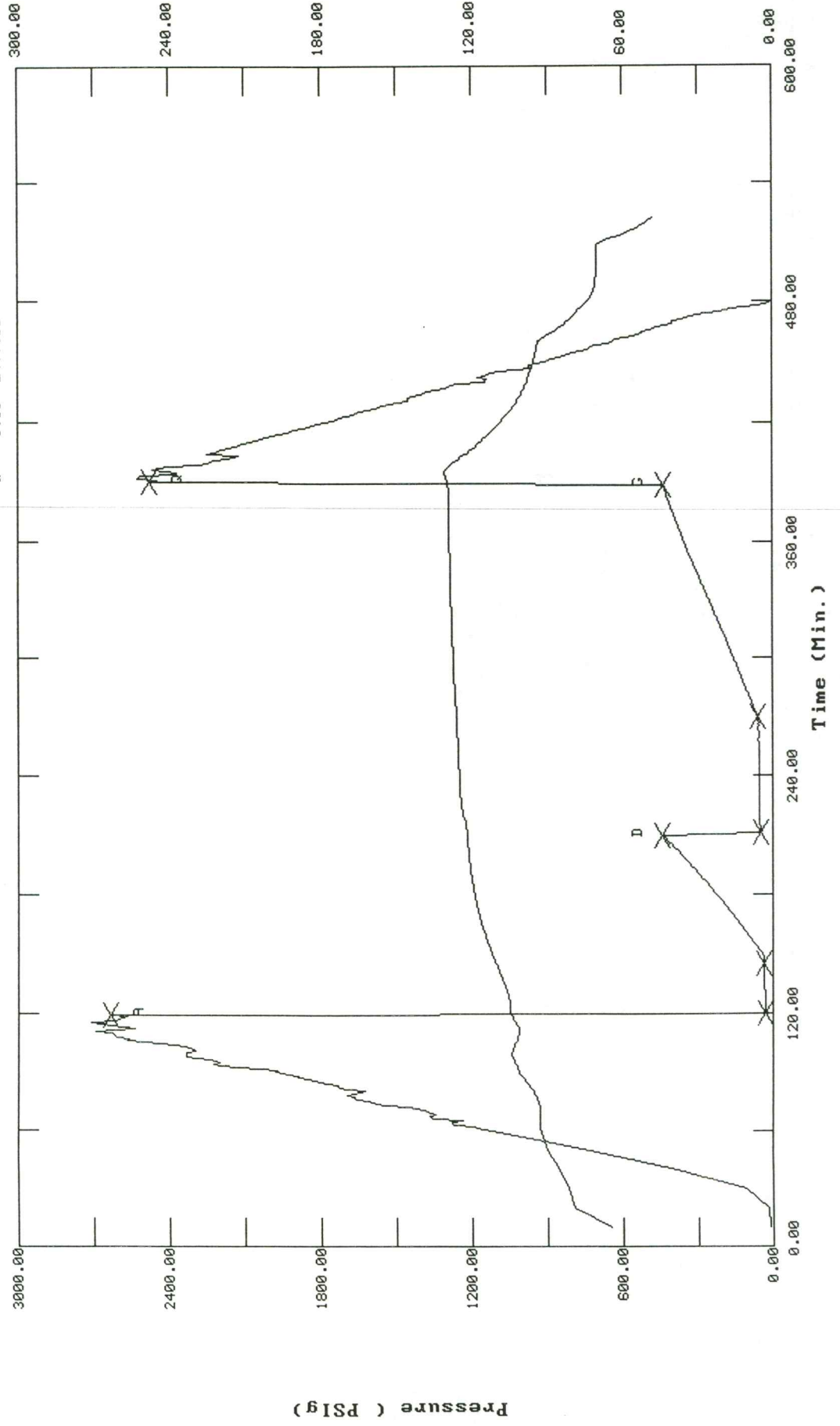
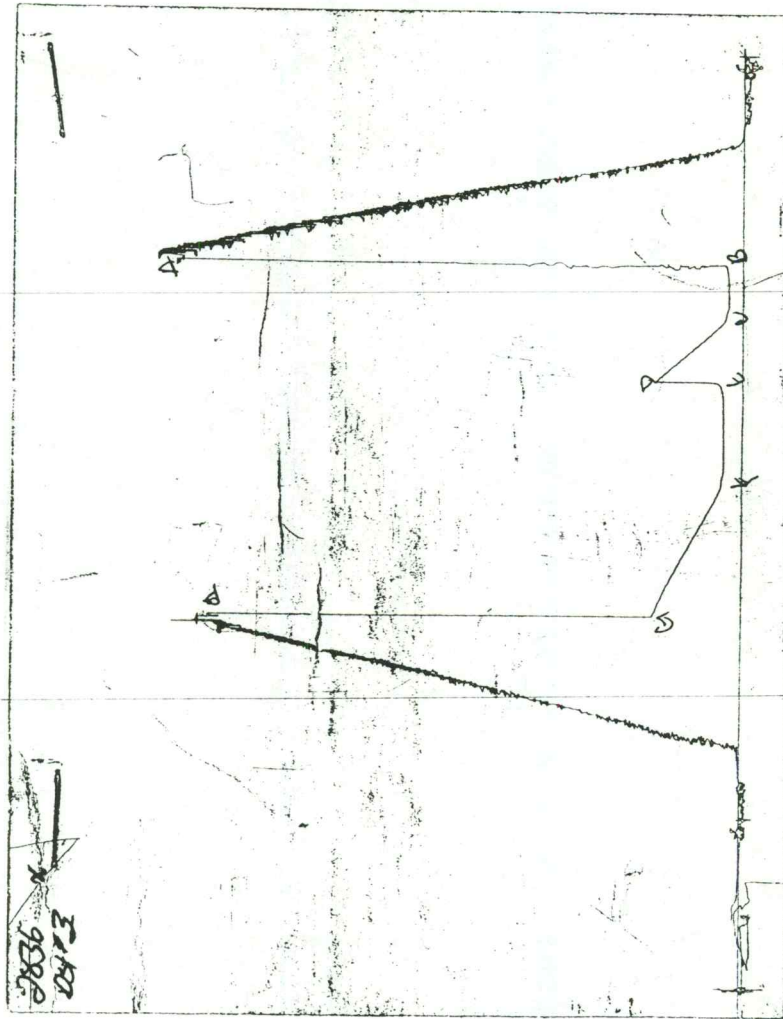


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 9100

|                                                         |                                         |                                                          |
|---------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>MHP Young Trust # 4-5</u>            | Test No. <u># 3</u>                     | Date <u>1-17-97</u>                                      |
| Company <u>Hugoton Energy Corp.</u>                     | Zone Tested <u>Chester</u>              |                                                          |
| Address <u>Wichita KS</u>                               | Elevation <u>2809</u> KB <u>2778</u> GL |                                                          |
| Co. Rep / Geo. <u>Chuck Schmaltz</u>                    | Cont. <u>Val Energy #1</u>              | Est. Ft. of Pay <u>25</u> Por. <u>    </u> %             |
| Location: Sec. <u>5</u> Twp. <u>31S</u> Rge. <u>34W</u> | Co. <u>Spread</u> State <u>KS</u>       |                                                          |
| No. of Copies <u>    </u>                               | Distribution Sheet (Y, N) <u>    </u>   | Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u> |

|                                                              |                                         |                                   |
|--------------------------------------------------------------|-----------------------------------------|-----------------------------------|
| Interval Tested <u>5410-5486</u>                             | Initial Str Wt./Lbs. <u>5800</u>        | Unseated Str Wt./Lbs. <u>6000</u> |
| Anchor Length <u>76'</u>                                     | Wt. Set Lbs. <u>2500</u>                | Wt. Pulled Loose/Lbs. <u>6500</u> |
| Top Packer Depth <u>5405</u>                                 | Hole Size — 7 7/8" <u>x</u>             | Rubber Size — 6 3/4" <u>x</u>     |
| Bottom Packer Depth <u>5410</u>                              | Wt. Pipe I.D. — 2.7 Ft. Run <u>    </u> |                                   |
| Total Depth <u>5486</u>                                      | Drill Collar — 2.25 Ft. Run <u>    </u> |                                   |
| Mud Wt. <u>9.2</u> LCM <u>1</u> Vis. <u>52</u> WL <u>8.4</u> | Drill Pipe Size <u>1 1/2 X-0</u>        | Ft. Run <u>5450</u>               |

Blow Description Face Blow Built to B.O.B. in 14 min.  
ISI Bld off 2in. Had 1/2 in Blow Back  
2nd opening. Strong Blow B.O.B. soon as open Took  
FISI Bld off 2in Had 1 in Blow Back Took 48 min to get Blow Back.

|                                                |                       |                       |                                     |
|------------------------------------------------|-----------------------|-----------------------|-------------------------------------|
| Recovery — Total Feet <u>90</u>                | Ft. in DC <u>    </u> | Ft. in WP <u>    </u> | Ft. in DP <u>90</u>                 |
| Rec. <u>810</u> Feet Of <u>Gas in Pipe</u>     | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>30</u> Feet Of <u>Mud sly oil cut</u>  | %gas <u>10</u>        | %oil <u>    </u>      | %water <u>90</u> %mud <u>    </u>   |
| Rec. <u>60</u> Feet Of <u>M sly GF oil cut</u> | %gas <u>7</u>         | %oil <u>3</u>         | %water <u>90</u> %mud <u>    </u>   |
| Rec. <u>    </u> Feet Of <u>    </u>           | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>    </u> Feet Of <u>    </u>           | %gas <u>    </u>      | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |

BHT 121 °F Gravity      °API D@      °F Corrected Gravity      °API

RW      @      °F Chlorides      ppm Recovery Chlorides 2,800 ppm System

|                                                          |                               |                                 |
|----------------------------------------------------------|-------------------------------|---------------------------------|
| (A) Initial Hydrostatic Mud <u>2626</u> <u>2658</u> PSI  | Recorder No. <u>2346</u>      | T-Started <u>11:45 AM</u>       |
| (B) First Initial Flow Pressure <u>25</u> <u>51</u> PSI  | @ (depth) <u>5413</u>         | T-Open <u>1:42</u>              |
| (C) First Final Flow Pressure <u>35</u> <u>51</u> PSI    | Recorder No. <u>2836</u>      | T-Pulled <u>6:12</u>            |
| (D) Initial Shut-in Pressure <u>440</u> <u>385</u> PSI   | @ (depth) <u>5483</u>         | T-Out <u>8:30</u>               |
| (E) Second Initial Flow Pressure <u>45</u> <u>77</u> PSI | Recorder No. <u>    </u>      |                                 |
| (F) Second Final Flow Pressure <u>56</u> <u>77</u> PSI   | @ (depth) <u>    </u>         |                                 |
| (G) Final Shut-in Pressure <u>437</u> <u>385</u> PSI     | Initial Opening <u>30 min</u> | Test <u>✓ Conventional 1800</u> |
| (H) Final Hydrostatic Mud <u>2525</u> <u>2440</u> PSI    | Initial Shut-in <u>60 min</u> | Jars <u>✓ 200</u>               |

|                              |                          |
|------------------------------|--------------------------|
| Final Flow <u>60 min</u>     | Safety Joint <u>✓ 50</u> |
| Final Shut-in <u>100 min</u> | Straddle <u>    </u>     |
|                              | Circ. Sub <u>✓ N/C</u>   |
|                              | Sampler <u>    </u>      |

ELECTRONIC RECORDER AUTHORIZED BY PAUL SIMPSON

Approved By Chuck Schmaltz

Our Representative M. Colaninno

Extra Packer     

Elect. Rec. ? n/c

Other     

TOTAL PRICE \$ 1050

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

# TRILOBITE TESTING L.L.C.

OPERATOR : Hugot Energy Corp.

DATE 1-19-97

WELL NAME: MLP Young Trust #4-5.

KB 2809.00 ft

TICKET NO: 9101 DST #4

LOCATION : 5-31S-34W

GR 2798.00 ft

FORMATION: Chester

INTERVAL : 5420.00 To 5530.00 ft

TD 5727.00 ft

TEST TYPE: CONV. STRADDLE

## RECORDER DATA

| Mins             | Field | 1   | 2   | 3   | 4   | TIME DATA----- |
|------------------|-------|-----|-----|-----|-----|----------------|
| PF 0 Rec.        |       |     |     |     |     | PF Fr. to hr   |
| SI 0 Range(Psi ) | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | IS Fr. to hr   |
| SF 0 Clock(hrs)  |       |     |     |     |     | SF Fr. to hr   |
| FS 0 Depth(ft )  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | FS Fr. to hr   |

|                | Field | 1   | 2   | 3   | 4   |                   |
|----------------|-------|-----|-----|-----|-----|-------------------|
| A. Init Hydro  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T STARTED 1000 hr |
| B. First Flow  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T ON BOTM 1203 hr |
| B1. Final Flow | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T OPEN 1205 hr    |
| C. In Shut-in  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T PULLED 1220 hr  |
| D. Init Flow   | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | T OUT 1430 hr     |
| E. Final Flow  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 |                   |
| Inside/Outside |       |     |     |     |     |                   |

## RECOVERY

|           |            |                   |               |
|-----------|------------|-------------------|---------------|
| Tot Fluid | 0.00 ft of | 0.00 ft in DC and | 0.00 ft in DP |
| 0.00      | ft of      |                   |               |
| 0.00      | ft of      |                   |               |
| 0.00      | ft of      |                   |               |
| 0.00      | ft of      |                   |               |
| 0.00      | ft of      |                   |               |
| 0.00      | ft of      |                   |               |
| 0.00      | ft of      |                   |               |
| 0.00      | ft of      |                   |               |

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

Initial Flow:  
Packer Failed

Packer tried to hold for 2 mins then  
lost it (misrun)

SAMPLES:

SENT TO:

Test Successful: N

TOOL DATA-----

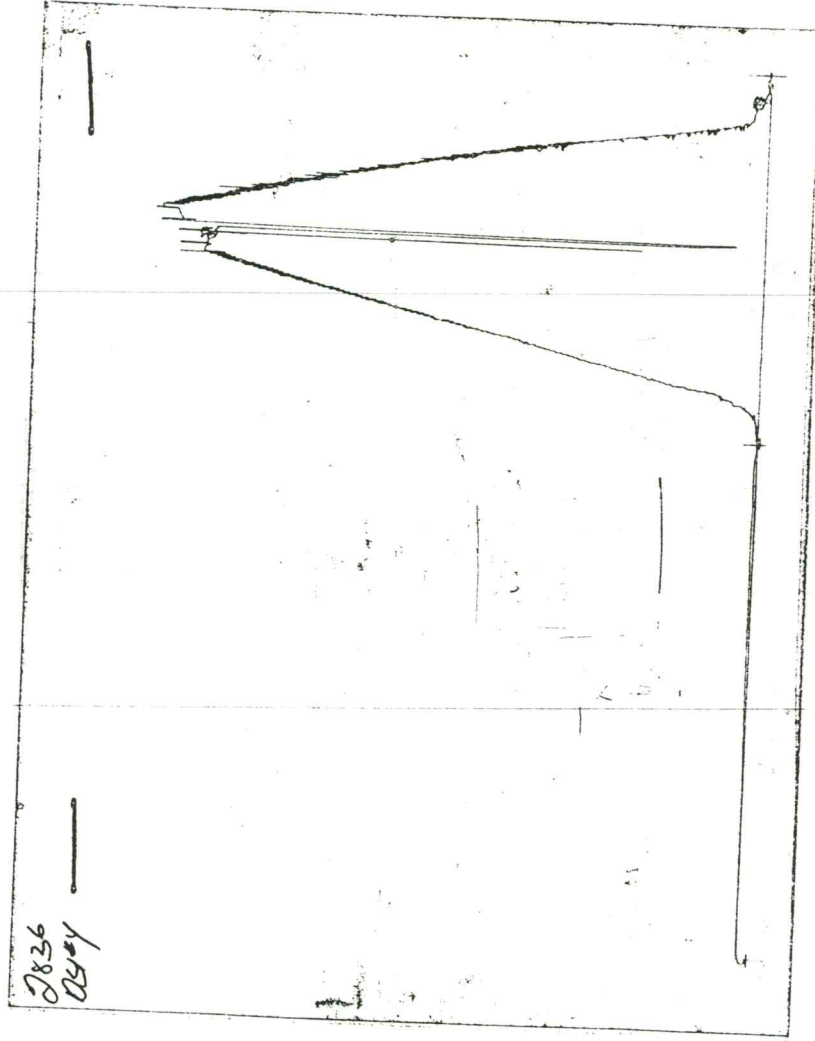
|                  |              |
|------------------|--------------|
| Tool Wt.         | 1800.00 lbs  |
| Wt Set On Packer | 25000.00 lbs |
| Wt Pulled Loose  | 68000.00 lbs |
| Initial Str Wt   | 62000.00 lbs |
| Unseated Str Wt  | 62000.00 lbs |
| Bot Choke        | 0.75 in      |
| Hole Size        | 7.88 in      |
| D Col. ID        | 2.25 in      |
| D. Pipe ID       | 3.80 in      |
| D.C. Length      | 61.00 ft     |
| D.P. Length      | 0.00 ft      |

MUD DATA-----

|            |           |
|------------|-----------|
| Mud Type   | Chemical  |
| Weight     | 9.20 lb/c |
| Vis.       | 50.00 S/L |
| W.L.       | 8.60 in3  |
| F.C.       | 0.00 in   |
| Mud Drop N |           |

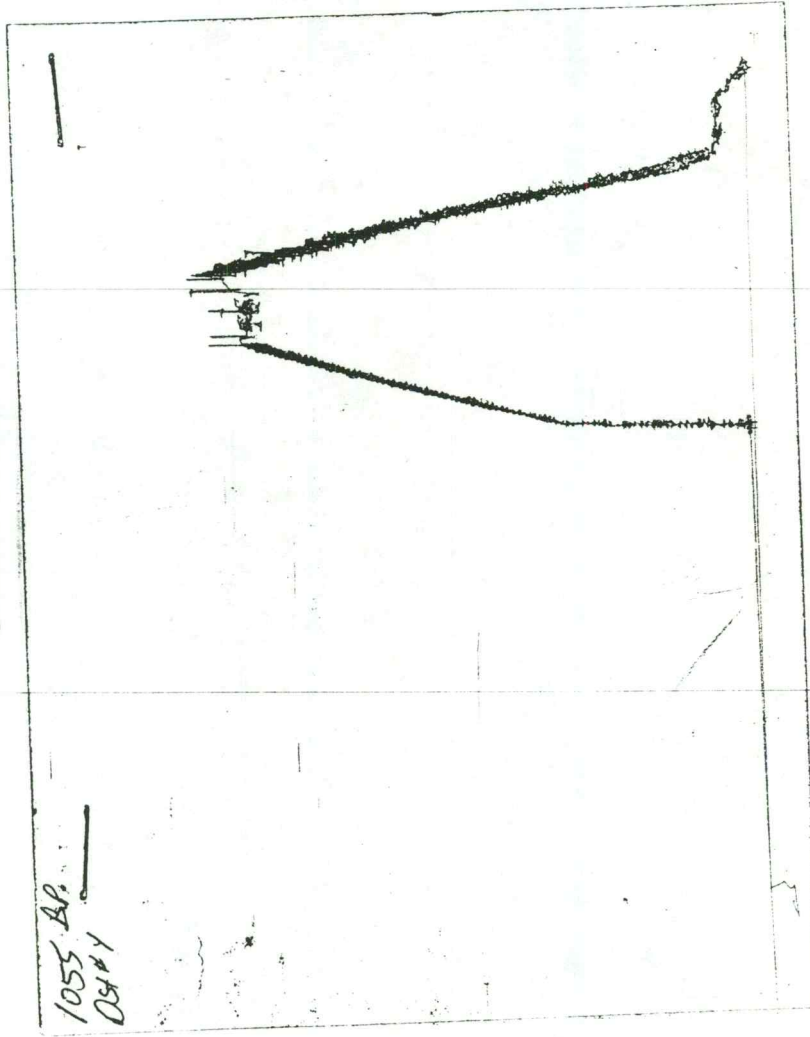
|                |                 |
|----------------|-----------------|
| Amt. of fill   | 0.00 ft         |
| Btm. H. Temp.  | 125.00 F        |
| Hole Condition | Good            |
| % Porosity     | 0.00            |
| Packer Size    | 6.75 in         |
| No. of Packers | 3               |
| Cushion Amt.   | 0.00            |
| Cushion Type   |                 |
| Reversed Out N |                 |
| Tool Chased N  |                 |
| Tester         | Mike Colantonio |
| Co. Rep.       | Chuck Schmaltz  |
| Contr.         | Val Energy      |
| Rig #          | 1               |
| Unit #         |                 |
| Pump T.        |                 |

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

N<sup>o</sup> 9101

|                                                         |                                 |                                              |
|---------------------------------------------------------|---------------------------------|----------------------------------------------|
| Well Name & No. <u>MLP Young Trust #4-5</u>             | Test No. <u>#4</u>              | Date <u>1-19-97</u>                          |
| Company <u>Hugoton Energy Corp.</u>                     | Zone Tested _____               |                                              |
| Address <u>Wichita KS.</u>                              | Elevation <u>2809</u>           | KB <u>2798</u> GL                            |
| Co. Rep / Geo. <u>Chuck Schmalz</u>                     | Cont. <u>VIA Energy Rig #1</u>  | Est. Ft. of Pay _____ Por. _____ %           |
| Location: Sec. <u>5</u> Twp. <u>31S</u> Rge. <u>34W</u> | Co. <u>Seward</u>               | State <u>KS.</u>                             |
| No. of Copies _____                                     | Distribution Sheet (Y, N) _____ | Turnkey (Y, N) _____ Evaluation (Y, N) _____ |

Interval Tested 5420-5530  
 Anchor Length 110'  
 Top Packer Depth 5415  
 Bottom Packer Depth 5530  
 Total Depth 5727  
 Mud Wt. 9.2 LCM 2 Vis. 50 WL 8.6  
 Blow Description Packer Failure.

Initial Str Wt./Lbs. 62,000 Unseated Str Wt./Lbs. 63,000  
 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 68,000  
 Hole Size — 7 7/8" X Rubber Size — 6 3/4" X  
 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Drill Collar — 2.25 Ft. Run 61'  
 Drill Pipe Size 4 1/2 X 0 Ft. Run \_\_\_\_\_

Mis Run.

| Recovery — Total Feet    | Ft. in DC                                     | Ft. in WP | Ft. in DP |
|--------------------------|-----------------------------------------------|-----------|-----------|
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ |           |           |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ |           |           |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ |           |           |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ |           |           |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ |           |           |

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3,200 ppm System

|                                            |                          |                                   |
|--------------------------------------------|--------------------------|-----------------------------------|
| (A) Initial Hydrostatic Mud _____ PSI      | Recorder No. <u>2346</u> | T-Started <u>10:00 AM.</u>        |
| (B) First Initial Flow Pressure _____ PSI  | @ (depth) <u>5523</u>    | T-Open <u>12:05 PM</u>            |
| (C) First Final Flow Pressure _____ PSI    | Recorder No. <u>2836</u> | T-Pulled <u>12:20</u>             |
| (D) Initial Shut-in Pressure _____ PSI     | @ (depth) <u>5626</u>    | T-Out <u>2:30 PM</u>              |
| (E) Second Initial Flow Pressure _____ PSI | Recorder No. <u>1055</u> |                                   |
| (F) Second Final Flow Pressure _____ PSI   | @ (depth) <u>5724</u>    |                                   |
| (G) Final Shut-in Pressure _____ PSI       | Initial Opening _____    | Test <u>✓ Straddle</u> <u>600</u> |
| (H) Final Hydrostatic Mud _____ PSI        | Initial Shut-in _____    | Jars <u>✓</u> <u>200</u>          |

Final Flow \_\_\_\_\_ Safety Joint ✓ 50  
 Final Shut-in \_\_\_\_\_ Straddle ✓ 250  
 Circ. Sub ✓ N/C  
 Sampler \_\_\_\_\_  
 Extra Packer ✓ 150  
 Elect. Rec. ✓ 150  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ 1400

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

# TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.

DATE 1-19-97

WELL NAME: MLP Young Trust #4-5

KB 2809.00 ft

TICKET NO: 9102

DST #5

LOCATION : 5-31s-34w

GR 2798.00 ft

FORMATION: Chester

INTERVAL : 5408.00 To 5530.00 ft

TD 5727.00 ft

TEST TYPE: CONV. STRADDLE

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3      | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|--------|-----|------------------------|
| PF 30 Rec.        | 2836   | 2836   | 2346   | 1055   |     | PF Fr. 1651 to 1721 hr |
| SI 60 Range(Psi ) | 3500.0 | 3500.0 | 4995.0 | 4050.0 | 0.0 | IS Fr. 1721 to 1821 hr |
| SF 30 Clock(hrs)  | 12HR.  | 12HR.  | Elec   | 12Hr.  |     | SF Fr. 1821 to 1851 hr |
| FS 120 Depth(ft ) | 5525.0 | 5525.0 | 5412.0 | 5724.0 | 0.0 | FS Fr. 1851 to 2051 hr |

|                | Field  | 1      | 2      | 3   | 4   |                   |
|----------------|--------|--------|--------|-----|-----|-------------------|
| A. Init Hydro  | 2804.0 | 2807.0 | 2842.0 | 0.0 | 0.0 | T STARTED 1500 hr |
| B. First Flow  | 128.0  | 162.0  | 50.0   | 0.0 | 0.0 | T ON BOTM 1649 hr |
| Bl. Final Flow | 136.0  | 149.0  | 79.0   | 0.0 | 0.0 | T OPEN 1651 hr    |
| C. In Shut-in  | 944.0  | 962.0  | 1031.0 | 0.0 | 0.0 | T PULLED 2051 hr  |
| D. Init Flow   | 196.0  | 209.0  | 101.0  | 0.0 | 0.0 | T OUT 2330 hr     |
| E. Final Flow  | 205.0  | 321.0  | 97.0   | 0.0 | 0.0 |                   |
| F. Fl Shut-in  | 884.0  | 888.0  | 1002.0 | 0.0 | 0.0 |                   |
| G. Final Hydro | 2440.0 | 2357.0 | 2431.0 | 0.0 | 0.0 |                   |
| Inside/Outside | O      | O      | I      | O   |     |                   |

## RECOVERY

|           |                         |                    |               |                               |
|-----------|-------------------------|--------------------|---------------|-------------------------------|
| Tot Fluid | 90.00 ft of             | 61.00 ft in DC and | 9.00 ft in DP | TOOL DATA-----                |
| 70.00     | ft of 100% Drilling Mud |                    |               | Tool Wt. 18000.00 lbs         |
| 0.00      | ft of                   |                    |               | Wt Set On Packer 25000.00 lbs |
| 0.00      | ft of                   |                    |               | Wt Pulled Loose 95000.00 lbs  |
| 0.00      | ft of                   |                    |               | Initial Str Wt 62000.00 lbs   |
| 0.00      | ft of                   |                    |               | Unseated Str Wt 62000.00 lbs  |
| 0.00      | ft of                   |                    |               | Bot Choke 0.75 in             |
| 0.00      | ft of                   |                    |               | Hole Size 7.88 in             |
| 0.00      | ft of                   |                    |               | D Col. ID 2.25 in             |
| 0.00      | ft of                   |                    |               | D. Pipe ID 3.80 in            |
| 0.00      | ft of                   |                    |               | D.C. Length 61.00 ft          |
| 0.00      | ft of                   |                    |               | D.P. Length 5325.00 ft        |
| SALINITY  | 0.00 P.P.M.             | A.P.I. Gravity     | 0.00          |                               |

## BLOW DESCRIPTION

Initial Flow:

Initial Shut In:

Final Flow:

No blow

Final Shut In:

SAMPLES: NO

SENT TO:

## MUD DATA-----

|            |           |
|------------|-----------|
| Mud Type   | Chemical  |
| Weight     | 9.20 lb/c |
| Vis.       | 50.00 S/L |
| W.L.       | 8.60 in3  |
| F.C.       | 0.00 in   |
| Mud Drop N |           |

|                |                 |
|----------------|-----------------|
| Amt. of fill   | 0.00 ft         |
| Btm. H. Temp.  | 125.00 F        |
| Hole Condition | Good            |
| % Porosity     | 0.00            |
| Packer Size    | 6.75 in         |
| No. of Packers | 3               |
| Cushion Amt.   | 0.00            |
| Cushion Type   |                 |
| Reversed Out N |                 |
| Tool Chased N  |                 |
| Tester         | Mike Colantonio |
| Co. Rep.       | Chuck Schmaltz  |
| Contr.         | Val Energy      |
| Rig #          | 1               |
| Unit #         |                 |
| Pump T.        |                 |

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV. STRADDLE

WELL NAME: MLP Young Trust #4-5

LOCATION : 5-31s-34w

TICKET No. 9102 D.S.T. No. 5 DATE 1-19-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 22ft

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 47ft

TOTAL TOOL ..... 69ft

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 4 Single 1 Total 279ft

TOTAL ASSEMBLY ..... 348ft

D.C. ABOVE TOOLS.Stands1 Single Total 61ft

D.P. ABOVE TOOLS.Stands88 Single 1 Total 5324ft

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5733ft

TOTAL DEPTH ..... 5727ft

TOTAL DRILL PIPE ABOVE K.B. .... 6ft

REMARKS:

|                         |      |
|-------------------------|------|
| P.O. SUB Top Tool       | 5378 |
| C.O. SUB                |      |
| S.I. TOOL 5ft           | 5384 |
|                         |      |
| HMV 5ft                 | 5389 |
| JARS 5ft                | 5394 |
|                         |      |
| SAFETY JOINT 2ft        | 5396 |
| PACKER 4ft              | 5400 |
| PACKER 8ft Shale Packer | 5408 |
| DEPTH                   |      |
| STUBB 2ft               | 5410 |
| ANCHOR                  |      |
| 1ft Perf                | 5411 |
| Alpine Rec              | 5412 |
| 95ft Drlg pipe & subs   | 5506 |
|                         |      |
| 6ft PU sub              | 5512 |
| 10ft Perf               | 5522 |
| 3ft Perf                | 5525 |
| AK-1 Rec                | 5525 |
|                         |      |
| 1ft Blank off sub       | 5526 |
|                         |      |
| T.C.                    |      |
| DEPTH                   |      |
| PACKER 5ft Straddle     | 5531 |
|                         |      |
| 5ft Perf                | 5536 |
|                         |      |
| 188Ft Drlg pipe & subs. | 5724 |
|                         |      |
| AK-1 Rec                | 5724 |
|                         |      |
| BULLNOSE                |      |
| T.D. 3ft Bullplug       | 5727 |

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9102 DST#5 MLP Young Trust #4-5 Hugoton Energy Corp.  
 DATE: 01/19/97 TIME: 16:43:50  
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|                      | Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|-------|------------------|-----------------|----------------|-----------|----------|
| ***** Initial Hydro. | 93.00 | 2842.2           | 0.0             | 108.01         |           |          |
| ***** Start Flow 1   | 0.00  | 51.0             | 0.0             | 108.36         |           |          |
|                      | 1.00  | 59.7             | 8.7             | 108.46         |           |          |
|                      | 2.00  | 62.8             | 11.8            | 108.22         |           |          |
|                      | 3.00  | 67.8             | 16.8            | 107.78         |           |          |
|                      | 4.00  | 65.9             | 14.9            | 107.28         |           |          |
|                      | 5.00  | 66.5             | 15.5            | 106.80         |           |          |
|                      | 6.00  | 70.6             | 19.7            | 106.38         |           |          |
|                      | 7.00  | 71.7             | 20.7            | 106.05         |           |          |
|                      | 8.00  | 71.5             | 20.6            | 105.82         |           |          |
|                      | 9.00  | 70.8             | 19.8            | 105.69         |           |          |
|                      | 10.00 | 71.1             | 20.1            | 105.64         |           |          |
|                      | 11.00 | 69.9             | 19.0            | 105.68         |           |          |
|                      | 12.00 | 69.5             | 18.5            | 105.79         |           |          |
|                      | 13.00 | 70.7             | 19.8            | 105.97         |           |          |
|                      | 14.00 | 72.8             | 21.8            | 106.22         |           |          |
|                      | 15.00 | 73.5             | 22.5            | 106.53         |           |          |
|                      | 16.00 | 73.7             | 22.7            | 106.89         |           |          |
|                      | 17.00 | 73.1             | 22.2            | 107.32         |           |          |
|                      | 18.00 | 73.8             | 22.9            | 107.79         |           |          |
|                      | 19.00 | 73.8             | 22.8            | 108.34         |           |          |
|                      | 20.00 | 73.5             | 22.6            | 108.96         |           |          |
|                      | 21.00 | 74.0             | 23.0            | 109.63         |           |          |
|                      | 22.00 | 74.1             | 23.1            | 110.33         |           |          |
|                      | 23.00 | 74.6             | 23.7            | 111.03         |           |          |
|                      | 24.00 | 74.6             | 23.7            | 111.71         |           |          |
|                      | 25.00 | 75.1             | 24.1            | 112.36         |           |          |
|                      | 26.00 | 75.3             | 24.4            | 112.97         |           |          |
|                      | 27.00 | 73.5             | 22.6            | 113.54         |           |          |
|                      | 28.00 | 73.5             | 22.5            | 114.07         |           |          |
|                      | 29.00 | 73.7             | 22.7            | 114.58         |           |          |
| ***** End Flow 1     | 30.00 | 79.6             | 28.6            | 115.04         |           |          |
| ***** Start Shutin 1 | 0.00  | 79.6             | 0.0             | 115.04         | 0.0000    | 0.006    |
|                      | 1.00  | 90.3             | 10.8            | 115.47         | 31.0000   | 0.008    |
|                      | 2.00  | 101.5            | 21.9            | 115.86         | 16.0000   | 0.010    |
|                      | 3.00  | 113.4            | 33.8            | 116.22         | 11.0000   | 0.013    |
|                      | 4.00  | 126.5            | 46.9            | 116.52         | 8.5000    | 0.016    |
|                      | 5.00  | 140.8            | 61.2            | 116.81         | 7.0000    | 0.020    |
|                      | 6.00  | 156.3            | 76.7            | 117.07         | 6.0000    | 0.024    |
|                      | 7.00  | 172.8            | 93.2            | 117.31         | 5.2857    | 0.030    |
|                      | 8.00  | 189.8            | 110.2           | 117.53         | 4.7500    | 0.036    |
|                      | 9.00  | 206.6            | 127.1           | 117.76         | 4.3333    | 0.043    |
|                      | 10.00 | 223.5            | 143.9           | 117.96         | 4.0000    | 0.050    |
|                      | 11.00 | 240.7            | 161.1           | 118.14         | 3.7273    | 0.058    |
|                      | 12.00 | 258.1            | 178.5           | 118.36         | 3.5000    | 0.067    |
|                      | 13.00 | 276.3            | 196.7           | 118.50         | 3.3077    | 0.076    |
|                      | 14.00 | 294.9            | 215.3           | 118.69         | 3.1429    | 0.087    |
|                      | 15.00 | 314.1            | 234.5           | 118.86         | 3.0000    | 0.099    |
|                      | 16.00 | 333.7            | 254.1           | 119.04         | 2.8750    | 0.111    |
|                      | 17.00 | 353.7            | 274.1           | 119.20         | 2.7647    | 0.125    |
|                      | 18.00 | 374.1            | 294.5           | 119.36         | 2.6667    | 0.140    |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9102 DST#5 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/19/97

TIME: 16:43:50

|                     | Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|---------------------|-------|------------------|-----------------|----------------|-----------|----------|
|                     | 19.00 | 394.7            | 315.1           | 119.52         | 2.5789    | 0.156    |
|                     | 20.00 | 415.4            | 335.8           | 119.67         | 2.5000    | 0.173    |
|                     | 21.00 | 436.4            | 356.8           | 119.81         | 2.4286    | 0.190    |
|                     | 22.00 | 457.5            | 377.9           | 119.96         | 2.3636    | 0.209    |
|                     | 23.00 | 478.5            | 398.9           | 120.11         | 2.3043    | 0.229    |
|                     | 24.00 | 499.4            | 419.8           | 120.25         | 2.2500    | 0.249    |
|                     | 25.00 | 520.2            | 440.6           | 120.39         | 2.2000    | 0.271    |
|                     | 26.00 | 540.3            | 460.7           | 120.52         | 2.1538    | 0.292    |
|                     | 27.00 | 560.1            | 480.6           | 120.66         | 2.1111    | 0.314    |
|                     | 28.00 | 579.7            | 500.1           | 120.78         | 2.0714    | 0.336    |
|                     | 29.00 | 599.3            | 519.7           | 120.92         | 2.0345    | 0.359    |
|                     | 30.00 | 618.8            | 539.3           | 121.04         | 2.0000    | 0.383    |
|                     | 31.00 | 637.4            | 557.8           | 121.16         | 1.9677    | 0.406    |
|                     | 32.00 | 655.6            | 576.0           | 121.28         | 1.9375    | 0.430    |
|                     | 33.00 | 673.8            | 594.2           | 121.39         | 1.9091    | 0.454    |
|                     | 34.00 | 691.5            | 611.9           | 121.52         | 1.8824    | 0.478    |
|                     | 35.00 | 708.9            | 629.3           | 121.63         | 1.8571    | 0.503    |
|                     | 36.00 | 726.6            | 647.0           | 121.74         | 1.8333    | 0.528    |
|                     | 37.00 | 743.3            | 663.7           | 121.85         | 1.8108    | 0.552    |
|                     | 38.00 | 760.7            | 681.1           | 121.95         | 1.7895    | 0.579    |
|                     | 39.00 | 777.2            | 697.6           | 122.07         | 1.7692    | 0.604    |
|                     | 40.00 | 793.3            | 713.8           | 122.16         | 1.7500    | 0.629    |
|                     | 41.00 | 809.0            | 729.4           | 122.26         | 1.7317    | 0.654    |
|                     | 42.00 | 824.4            | 744.8           | 122.37         | 1.7143    | 0.680    |
|                     | 43.00 | 839.3            | 759.7           | 122.46         | 1.6977    | 0.704    |
|                     | 44.00 | 854.0            | 774.5           | 122.56         | 1.6818    | 0.729    |
|                     | 45.00 | 868.5            | 788.9           | 122.66         | 1.6667    | 0.754    |
|                     | 46.00 | 882.4            | 802.8           | 122.76         | 1.6522    | 0.779    |
|                     | 47.00 | 895.6            | 816.0           | 122.84         | 1.6383    | 0.802    |
|                     | 48.00 | 908.6            | 829.0           | 122.94         | 1.6250    | 0.826    |
|                     | 49.00 | 921.2            | 841.6           | 123.02         | 1.6122    | 0.849    |
|                     | 50.00 | 933.6            | 854.0           | 123.11         | 1.6000    | 0.872    |
|                     | 51.00 | 945.5            | 865.9           | 123.19         | 1.5882    | 0.894    |
|                     | 52.00 | 957.3            | 877.7           | 123.28         | 1.5769    | 0.916    |
|                     | 53.00 | 968.6            | 889.0           | 123.35         | 1.5660    | 0.938    |
|                     | 54.00 | 979.6            | 900.0           | 123.45         | 1.5556    | 0.960    |
|                     | 55.00 | 990.4            | 910.8           | 123.52         | 1.5455    | 0.981    |
|                     | 56.00 | 1001.3           | 921.7           | 123.60         | 1.5357    | 1.003    |
|                     | 57.00 | 1011.8           | 932.2           | 123.68         | 1.5263    | 1.024    |
|                     | 58.00 | 1021.9           | 942.3           | 123.76         | 1.5172    | 1.044    |
| ***** End Shut-in 1 | 59.00 | 1031.6           | 952.0           | 123.83         | 1.5085    | 1.064    |
| ***** Start Flow 2  | 0.00  | 101.6            | 0.0             | 123.88         |           |          |
|                     | 1.00  | 130.5            | 28.9            | 123.96         |           |          |
|                     | 2.00  | 147.8            | 46.2            | 124.05         |           |          |
|                     | 3.00  | 164.2            | 62.6            | 124.13         |           |          |
|                     | 4.00  | 179.5            | 77.9            | 124.22         |           |          |
|                     | 5.00  | 194.2            | 92.6            | 124.29         |           |          |
|                     | 6.00  | 205.3            | 103.7           | 124.36         |           |          |
|                     | 7.00  | 219.9            | 118.3           | 124.42         |           |          |
|                     | 8.00  | 155.9            | 54.3            | 124.47         |           |          |
|                     | 9.00  | 167.5            | 65.9            | 124.53         |           |          |

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9102 DST#5 MLP Young Trust #4-5 Hugoton Energy Corp.  
 DATE: 01/19/97 TIME: 16:43:50  
 -----

|                      | Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|----------------------|-------|------------------|-----------------|----------------|-----------|----------|
|                      | 10.00 | 172.6            | 71.0            | 124.60         |           |          |
|                      | 11.00 | 183.6            | 82.0            | 124.67         |           |          |
|                      | 12.00 | 194.4            | 92.8            | 124.74         |           |          |
|                      | 13.00 | 205.3            | 103.7           | 124.81         |           |          |
|                      | 14.00 | 164.9            | 63.3            | 124.87         |           |          |
|                      | 15.00 | 182.3            | 80.7            | 124.94         |           |          |
|                      | 16.00 | 192.2            | 90.6            | 125.01         |           |          |
|                      | 17.00 | 202.0            | 100.4           | 125.07         |           |          |
|                      | 18.00 | 212.2            | 110.6           | 125.14         |           |          |
|                      | 19.00 | 222.2            | 120.6           | 125.19         |           |          |
|                      | 20.00 | 232.3            | 130.7           | 125.25         |           |          |
|                      | 21.00 | 242.7            | 141.1           | 125.31         |           |          |
|                      | 22.00 | 253.9            | 152.3           | 125.36         |           |          |
|                      | 23.00 | 265.0            | 163.4           | 125.41         |           |          |
|                      | 24.00 | 276.3            | 174.7           | 125.46         |           |          |
|                      | 25.00 | 287.9            | 186.3           | 125.52         |           |          |
|                      | 26.00 | 299.5            | 197.9           | 125.56         |           |          |
|                      | 27.00 | 311.0            | 209.4           | 125.61         |           |          |
|                      | 28.00 | 323.0            | 221.4           | 125.67         |           |          |
| ***** End Flow 2     | 29.00 | 335.1            | 233.5           | 125.71         |           |          |
|                      | 30.00 | 97.1             | -4.5            | 125.76         |           |          |
| ***** Start Shutin 2 | 0.00  | 97.1             | 0.0             | 125.76         | 0.0000    | 0.009    |
|                      | 1.00  | 86.5             | -10.6           | 125.83         | 61.0000   | 0.007    |
|                      | 2.00  | 93.2             | -3.9            | 125.92         | 31.0000   | 0.009    |
|                      | 3.00  | 98.3             | 1.2             | 125.99         | 21.0000   | 0.01     |
|                      | 4.00  | 102.8            | 5.7             | 126.07         | 16.0000   | 0.011    |
|                      | 5.00  | 107.2            | 10.1            | 126.14         | 13.0000   | 0.011    |
|                      | 6.00  | 111.5            | 14.4            | 126.21         | 11.0000   | 0.012    |
|                      | 7.00  | 115.8            | 18.7            | 126.27         | 9.5714    | 0.013    |
|                      | 8.00  | 119.9            | 22.8            | 126.33         | 8.5000    | 0.014    |
|                      | 9.00  | 124.0            | 26.9            | 126.38         | 7.6667    | 0.015    |
|                      | 10.00 | 128.1            | 31.0            | 126.43         | 7.0000    | 0.016    |
|                      | 11.00 | 132.4            | 35.3            | 126.48         | 6.4545    | 0.018    |
|                      | 12.00 | 136.5            | 39.5            | 126.52         | 6.0000    | 0.019    |
|                      | 13.00 | 140.8            | 43.7            | 126.57         | 5.6154    | 0.020    |
|                      | 14.00 | 145.1            | 48.0            | 126.62         | 5.2857    | 0.021    |
|                      | 15.00 | 149.3            | 52.2            | 126.65         | 5.0000    | 0.022    |
|                      | 16.00 | 154.0            | 56.9            | 126.70         | 4.7500    | 0.024    |
|                      | 17.00 | 158.5            | 61.4            | 126.73         | 4.5294    | 0.025    |
|                      | 18.00 | 163.1            | 66.0            | 126.77         | 4.3333    | 0.027    |
|                      | 19.00 | 167.7            | 70.6            | 126.81         | 4.1579    | 0.028    |
|                      | 20.00 | 172.3            | 75.2            | 126.84         | 4.0000    | 0.030    |
|                      | 21.00 | 177.0            | 79.9            | 126.88         | 3.8571    | 0.031    |
|                      | 22.00 | 181.8            | 84.7            | 126.92         | 3.7273    | 0.033    |
|                      | 23.00 | 186.6            | 89.5            | 126.95         | 3.6087    | 0.035    |
|                      | 24.00 | 191.8            | 94.7            | 126.98         | 3.5000    | 0.037    |
|                      | 25.00 | 197.1            | 100.0           | 127.02         | 3.4000    | 0.039    |
|                      | 26.00 | 202.3            | 105.2           | 127.05         | 3.3077    | 0.041    |
|                      | 27.00 | 207.8            | 110.7           | 127.09         | 3.2222    | 0.043    |
|                      | 28.00 | 213.4            | 116.3           | 127.12         | 3.1429    | 0.046    |
|                      | 29.00 | 218.9            | 121.8           | 127.15         | 3.0690    | 0.048    |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9102 DST#5 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/19/97

TIME: 16:43:50

| Time  | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|-------|------------------|-----------------|----------------|-----------|----------|
| 30.00 | 224.7            | 127.6           | 127.19         | 3.0000    | 0.050    |
| 31.00 | 230.3            | 133.2           | 127.22         | 2.9355    | 0.053    |
| 32.00 | 236.4            | 139.3           | 127.25         | 2.8750    | 0.056    |
| 33.00 | 242.5            | 145.4           | 127.28         | 2.8182    | 0.059    |
| 34.00 | 248.9            | 151.8           | 127.30         | 2.7647    | 0.062    |
| 35.00 | 255.3            | 158.2           | 127.35         | 2.7143    | 0.065    |
| 36.00 | 261.7            | 164.6           | 127.37         | 2.6667    | 0.068    |
| 37.00 | 268.2            | 171.2           | 127.40         | 2.6216    | 0.072    |
| 38.00 | 275.2            | 178.1           | 127.44         | 2.5789    | 0.076    |
| 39.00 | 282.2            | 185.1           | 127.46         | 2.5385    | 0.080    |
| 40.00 | 289.4            | 192.3           | 127.49         | 2.5000    | 0.084    |
| 41.00 | 296.7            | 199.6           | 127.52         | 2.4634    | 0.088    |
| 42.00 | 304.3            | 207.2           | 127.55         | 2.4286    | 0.093    |
| 43.00 | 312.0            | 214.9           | 127.58         | 2.3953    | 0.097    |
| 44.00 | 319.7            | 222.6           | 127.60         | 2.3636    | 0.102    |
| 45.00 | 327.7            | 230.6           | 127.63         | 2.3333    | 0.107    |
| 46.00 | 335.7            | 238.6           | 127.66         | 2.3043    | 0.113    |
| 47.00 | 343.7            | 246.6           | 127.69         | 2.2766    | 0.118    |
| 48.00 | 352.1            | 255.0           | 127.71         | 2.2500    | 0.124    |
| 49.00 | 360.4            | 263.3           | 127.74         | 2.2245    | 0.130    |
| 50.00 | 368.9            | 271.8           | 127.77         | 2.2000    | 0.136    |
| 51.00 | 377.5            | 280.4           | 127.79         | 2.1765    | 0.142    |
| 52.00 | 386.3            | 289.2           | 127.82         | 2.1538    | 0.149    |
| 53.00 | 395.2            | 298.1           | 127.86         | 2.1321    | 0.156    |
| 54.00 | 404.4            | 307.3           | 127.89         | 2.1111    | 0.164    |
| 55.00 | 413.4            | 316.3           | 127.91         | 2.0909    | 0.171    |
| 56.00 | 422.7            | 325.6           | 127.93         | 2.0714    | 0.179    |
| 57.00 | 432.1            | 335.0           | 127.96         | 2.0526    | 0.187    |
| 58.00 | 441.4            | 344.3           | 127.98         | 2.0345    | 0.195    |
| 59.00 | 450.8            | 353.7           | 128.00         | 2.0169    | 0.203    |
| 60.00 | 460.3            | 363.2           | 128.05         | 2.0000    | 0.212    |
| 61.00 | 469.9            | 372.8           | 128.07         | 1.9836    | 0.221    |
| 62.00 | 479.5            | 382.4           | 128.10         | 1.9677    | 0.230    |
| 63.00 | 489.3            | 392.2           | 128.10         | 1.9524    | 0.239    |
| 64.00 | 499.1            | 402.0           | 128.15         | 1.9375    | 0.249    |
| 65.00 | 508.8            | 411.7           | 128.17         | 1.9231    | 0.259    |
| 66.00 | 518.6            | 421.5           | 128.21         | 1.9091    | 0.269    |
| 67.00 | 528.4            | 431.3           | 128.23         | 1.8955    | 0.279    |
| 68.00 | 538.1            | 441.0           | 128.26         | 1.8824    | 0.290    |
| 69.00 | 548.1            | 451.0           | 128.29         | 1.8696    | 0.300    |
| 70.00 | 558.1            | 461.0           | 128.31         | 1.8571    | 0.311    |
| 71.00 | 568.0            | 470.9           | 128.34         | 1.8451    | 0.323    |
| 72.00 | 577.9            | 480.8           | 128.39         | 1.8333    | 0.334    |
| 73.00 | 587.9            | 490.8           | 128.39         | 1.8219    | 0.346    |
| 74.00 | 597.8            | 500.7           | 128.41         | 1.8108    | 0.357    |
| 75.00 | 607.7            | 510.6           | 128.43         | 1.8000    | 0.369    |
| 76.00 | 617.6            | 520.5           | 128.46         | 1.7895    | 0.381    |
| 77.00 | 627.6            | 530.5           | 128.48         | 1.7792    | 0.394    |
| 78.00 | 637.6            | 540.5           | 128.51         | 1.7692    | 0.406    |
| 79.00 | 647.7            | 550.6           | 128.53         | 1.7595    | 0.420    |
| 80.00 | 657.7            | 560.6           | 128.56         | 1.7500    | 0.433    |

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 9102 DST#5 MLP Young Trust #4-5 Hugoton Energy Corp.  
 DATE: 01/19/97 TIME: 16:43:50  
 -----

|                     | Time   | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|---------------------|--------|------------------|-----------------|----------------|-----------|----------|
|                     | 81.00  | 667.6            | 570.5           | 128.59         | 1.7407    | 0.446    |
|                     | 82.00  | 677.4            | 580.3           | 128.60         | 1.7317    | 0.459    |
|                     | 83.00  | 687.2            | 590.1           | 128.63         | 1.7229    | 0.472    |
|                     | 84.00  | 696.9            | 599.8           | 128.65         | 1.7143    | 0.486    |
|                     | 85.00  | 706.5            | 609.4           | 128.67         | 1.7059    | 0.499    |
|                     | 86.00  | 716.2            | 619.1           | 128.70         | 1.6977    | 0.513    |
|                     | 87.00  | 725.7            | 628.6           | 128.71         | 1.6897    | 0.527    |
|                     | 88.00  | 735.3            | 638.2           | 128.74         | 1.6818    | 0.541    |
|                     | 89.00  | 744.7            | 647.6           | 128.76         | 1.6742    | 0.555    |
|                     | 90.00  | 754.0            | 656.9           | 128.79         | 1.6667    | 0.569    |
|                     | 91.00  | 763.4            | 666.3           | 128.80         | 1.6593    | 0.583    |
|                     | 92.00  | 772.6            | 675.5           | 128.83         | 1.6522    | 0.597    |
|                     | 93.00  | 781.8            | 684.7           | 128.84         | 1.6452    | 0.611    |
|                     | 94.00  | 790.9            | 693.8           | 128.86         | 1.6383    | 0.625    |
|                     | 95.00  | 799.9            | 702.8           | 128.90         | 1.6316    | 0.640    |
|                     | 96.00  | 808.9            | 711.8           | 128.91         | 1.6250    | 0.654    |
|                     | 97.00  | 817.8            | 720.7           | 128.93         | 1.6186    | 0.669    |
|                     | 98.00  | 826.5            | 729.4           | 128.95         | 1.6122    | 0.683    |
|                     | 99.00  | 835.2            | 738.1           | 128.98         | 1.6061    | 0.698    |
|                     | 100.00 | 843.9            | 746.8           | 128.99         | 1.6000    | 0.712    |
|                     | 101.00 | 853.4            | 756.3           | 129.01         | 1.5941    | 0.728    |
|                     | 102.00 | 862.5            | 765.4           | 129.04         | 1.5882    | 0.744    |
|                     | 103.00 | 871.2            | 774.1           | 129.06         | 1.5825    | 0.759    |
|                     | 104.00 | 879.6            | 782.5           | 129.07         | 1.5769    | 0.774    |
|                     | 105.00 | 888.0            | 790.9           | 129.09         | 1.5714    | 0.789    |
|                     | 106.00 | 896.4            | 799.3           | 129.11         | 1.5660    | 0.803    |
|                     | 107.00 | 904.6            | 807.5           | 129.13         | 1.5607    | 0.818    |
|                     | 108.00 | 912.7            | 815.6           | 129.14         | 1.5556    | 0.833    |
|                     | 109.00 | 920.8            | 823.7           | 129.17         | 1.5505    | 0.848    |
|                     | 110.00 | 928.7            | 831.6           | 129.18         | 1.5455    | 0.862    |
|                     | 111.00 | 936.5            | 839.4           | 129.20         | 1.5405    | 0.877    |
|                     | 112.00 | 944.3            | 847.2           | 129.23         | 1.5357    | 0.892    |
|                     | 113.00 | 951.9            | 854.8           | 129.25         | 1.5310    | 0.906    |
|                     | 114.00 | 959.4            | 862.4           | 129.27         | 1.5263    | 0.921    |
|                     | 115.00 | 967.0            | 869.9           | 129.29         | 1.5217    | 0.935    |
|                     | 116.00 | 974.3            | 877.2           | 129.31         | 1.5172    | 0.949    |
|                     | 117.00 | 981.5            | 884.4           | 129.33         | 1.5128    | 0.963    |
|                     | 118.00 | 988.7            | 891.6           | 129.34         | 1.5085    | 0.978    |
|                     | 119.00 | 995.7            | 898.6           | 129.36         | 1.5042    | 0.991    |
| ***** End Shut-in 2 | 120.00 | 1002.6           | 905.5           | 129.37         | 1.5000    | 1.005    |
| ***** Final Hydro.  | 335.00 | 2431.0           | 0.0             | 129.41         |           |          |

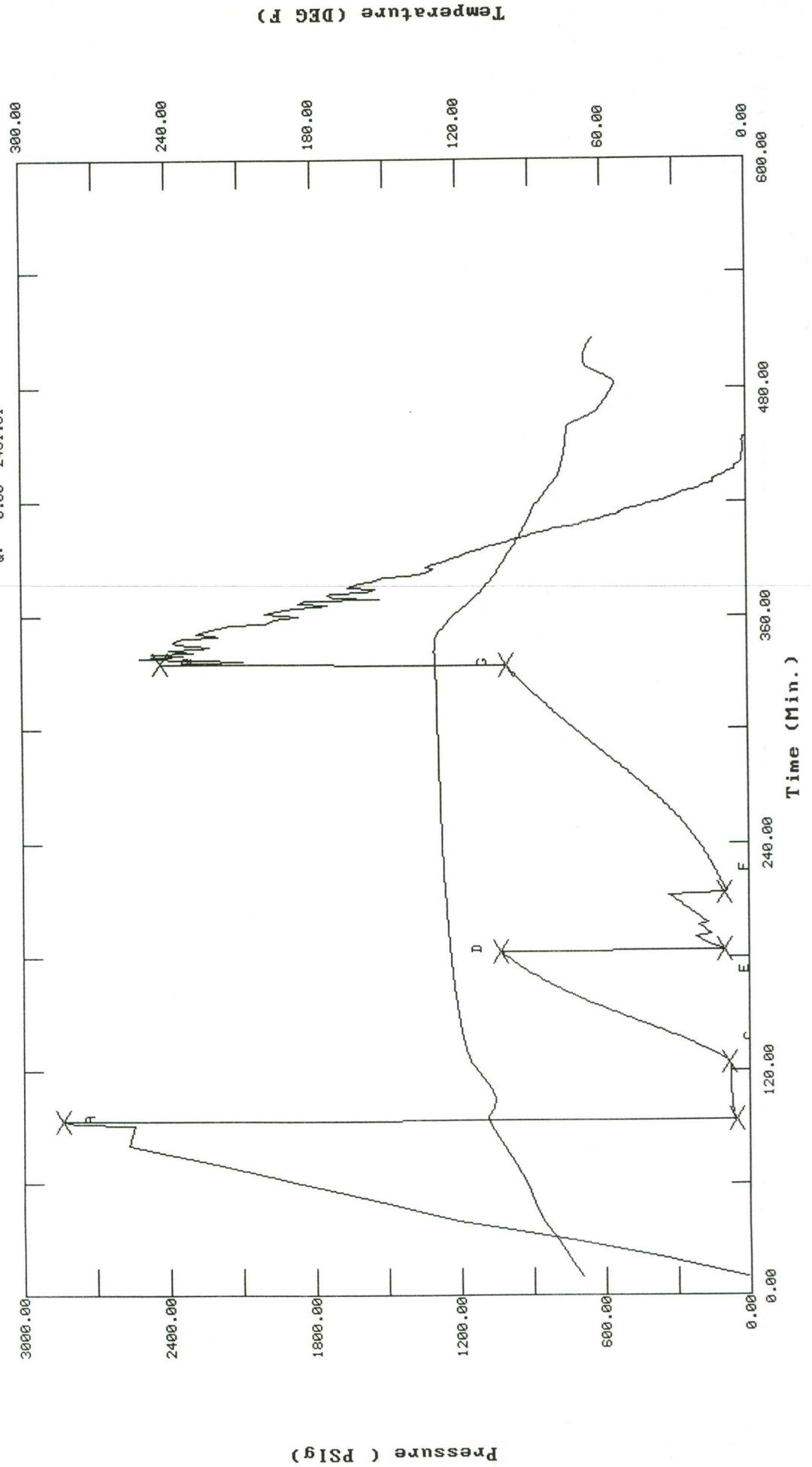
# TEST HISTORY

9102 DST#5 MLP Young Trust #4-5 Hugoton Energy Corp.

## Flag Points

t(Min.) P( PSig)

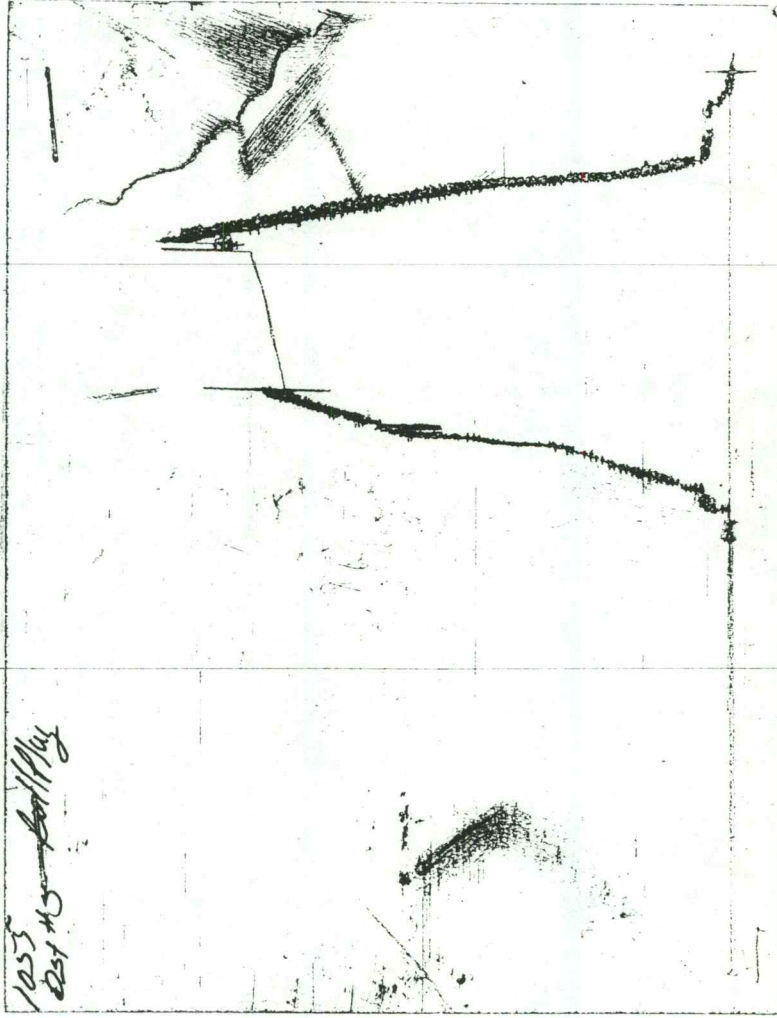
A: 0.00 2842.23  
B: 0.00 50.95  
C: 30.00 79.59  
D: 59.00 1031.59  
E: 0.00 101.60  
F: 30.00 97.10  
G: 120.00 1002.57  
Q: 0.00 2431.01



2836 - Blank off  
D415

This is a photocopy of the actual AK-1 recorder chart

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 9102

|                 |                             |                           |                          |                 |                                               |
|-----------------|-----------------------------|---------------------------|--------------------------|-----------------|-----------------------------------------------|
| Well Name & No. | <u>MHP Young Trust #4-5</u> | Test No.                  | <u>5</u>                 | Date            | <u>1-19-97</u>                                |
| Company         | <u>Hugoton Energy Corp.</u> | Zone Tested               | <u>Chester</u>           |                 |                                               |
| Address         | <u>Wichita KS.</u>          | Elevation                 | <u>2809</u>              | KB              | <u>2798</u> GL                                |
| Co. Rep / Geo.  | <u>Chuck Schmaltz</u>       | Cont.                     | <u>V.A. Energy Corp.</u> | Est. Ft. of Pay | <u>5</u> Por. <u>    </u> %                   |
| Location: Sec.  | <u>5</u>                    | Twp.                      | <u>31S</u>               | Rge.            | <u>34W</u> Co. <u>Seward</u> State <u>KS.</u> |
| No. of Copies   | <u>    </u>                 | Distribution Sheet (Y, N) | <u>    </u>              | Turnkey (Y, N)  | <u>    </u> Evaluation (Y, N) <u>    </u>     |

|                     |                                                      |                             |                  |                       |               |
|---------------------|------------------------------------------------------|-----------------------------|------------------|-----------------------|---------------|
| Interval Tested     | <u>5408-5530</u>                                     | Initial Str Wt./Lbs.        | <u>62,000</u>    | Unseated Str Wt./Lbs. | <u>63,000</u> |
| Anchor Length       | <u>122'</u>                                          | Wt. Set Lbs.                | <u>25,000</u>    | Wt. Pulled Loose/Lbs. | <u>95,000</u> |
| Top Packer Depth    | <u>5400</u>                                          | Hole Size — 7 7/8"          | <u>X</u>         | Rubber Size — 6 3/4"  | <u>X</u>      |
| Bottom Packer Depth | <u>5530</u>                                          | Wt. Pipe I.D. — 2.7 Ft. Run | <u>    </u>      |                       |               |
| Total Depth         | <u>5727</u>                                          | Drill Collar — 2.25 Ft. Run | <u>61'</u>       |                       |               |
| Mud Wt.             | <u>9.2</u> LCM <u>2</u> Vis. <u>50</u> WL <u>8.6</u> | Drill Pipe Size             | <u>4 1/2 X-0</u> | Ft. Run               | <u>5325</u>   |
| Blow Description    | <u>Weak Blow Built to 2 in.</u>                      |                             |                  |                       |               |

2nd opening NO Blow

|                                  |               |             |                 |                 |               |                      |                                   |
|----------------------------------|---------------|-------------|-----------------|-----------------|---------------|----------------------|-----------------------------------|
| Recovery — Total Feet            | <u>70</u>     | Ft. in DC   | <u>61</u>       | Ft. in WP       | <u>    </u>   | Ft. in DP            | <u>9</u>                          |
| Rec.                             | <u>70</u>     | Feet Of     | <u>Only mud</u> | %gas            | %oil          | %water               | <u>100</u> %mud                   |
| Rec.                             | <u>    </u>   | Feet Of     | <u>    </u>     | %gas            | %oil          | %water               | %mud                              |
| Rec.                             | <u>    </u>   | Feet Of     | <u>    </u>     | %gas            | %oil          | %water               | %mud                              |
| Rec.                             | <u>    </u>   | Feet Of     | <u>    </u>     | %gas            | %oil          | %water               | %mud                              |
| Rec.                             | <u>    </u>   | Feet Of     | <u>    </u>     | %gas            | %oil          | %water               | %mud                              |
| BHT                              | <u>125</u>    | °F Gravity  | <u>    </u>     | °API D@         | <u>    </u>   | °F Corrected Gravity | <u>    </u> °API                  |
| RW                               | <u>    </u>   | @           | <u>    </u>     | °F Chlorides    | <u>    </u>   | ppm Recovery         | Chlorides <u>3,200</u> ppm System |
| (A) Initial Hydrostatic Mud      | <u>2791</u>   | <u>2804</u> | PSI             | Recorder No.    | <u>2346</u>   | T-Started            | <u>3:00pm</u>                     |
| (B) First Initial Flow Pressure  | <u>50</u>     | <u>128</u>  | PSI             | @ (depth)       | <u>5412</u>   | T-Open               | <u>4:51pm</u>                     |
| (C) First Final Flow Pressure    | <u>79</u>     | <u>136</u>  | PSI             | Recorder No.    | <u>2836</u>   | T-Pulled             | <u>8:51pm</u>                     |
| (D) Initial Shut-in Pressure     | <u>1031</u>   | <u>944</u>  | PSI             | @ (depth)       | <u>5825</u>   | T-Out                | <u>11:30pm</u>                    |
| (E) Second Initial Flow Pressure | <u>101</u>    | <u>196</u>  | PSI             | Recorder No.    | <u>1055</u>   |                      |                                   |
| (F) Second Final Flow Pressure   | <u>97</u>     | <u>205</u>  | PSI             | @ (depth)       | <u>5724</u>   |                      |                                   |
| (G) Final Shut-in Pressure       | <u>1002</u>   | <u>884</u>  | PSI             | Initial Opening | <u>30min</u>  | Test                 | <u>Straddle</u> <u>800</u>        |
| (H) Final Hydrostatic Mud        | <u>2280</u>   | <u>2440</u> | PSI             | Initial Shut-in | <u>60min</u>  | Jars                 | <u>200</u>                        |
|                                  | <u>Alpine</u> | <u>AK-1</u> |                 | Final Flow      | <u>30min</u>  | Safety Joint         | <u>50</u>                         |
|                                  |               |             |                 | Final Shut-in   | <u>120min</u> | Straddle             | <u>250</u>                        |
|                                  |               |             |                 |                 |               | Circ. Sub            | <u>W/C</u>                        |
|                                  |               |             |                 |                 |               | Sampler              | <u>    </u>                       |
|                                  |               |             |                 |                 |               | Extra Packer         | <u>+1 Shale Packer</u> <u>150</u> |
|                                  |               |             |                 |                 |               | Elect. Rec.          | <u>150</u>                        |
|                                  |               |             |                 |                 |               | Other                | <u>    </u>                       |

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Chuck Schmaltz

Our Representative M. H. H.

TOTAL PRICE \$ 1700

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.

DATE 1-20-97

WELL NAME: MLP Young Trust #4-5

KB 2809.00 ft

TICKET NO: 9103 DST #6

LOCATION : 5-31s-34w

GR 2798.00 ft

FORMATION: Chester

INTERVAL : 5537.00 To 5620.00 ft

TD 5727.00 ft

TEST TYPE: CONV. STRADDLE

RECORDER DATA

| Mins              | Field  | 1      | 2      | 3      | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|--------|-----|------------------------|
| PF 30 Rec.        | 2836   | 2836   | 2346   | 1055   |     | PF Fr. 0149 to 0219 hr |
| SI 60 Range(Psi ) | 3500.0 | 3500.0 | 4995.0 | 4050.0 | 0.0 | IS Fr. 0219 to 0319 hr |
| SF 45 Clock(hrs)  | 12Hr.  | 12Hr.  | Elec   | 12Hr.  |     | SF Fr. 0319 to 0404 hr |
| FS 90 Depth(ft )  | 5614.0 | 5614.0 | 5538.0 | 5724.0 | 0.0 | FS Fr. 0404 to 0534 hr |

|                | Field | 1   | 2      | 3   | 4   |                               |
|----------------|-------|-----|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 0.0   | 0.0 | 2783.0 | 0.0 | 0.0 | T STARTED 1200 hr             |
| B. First Flow  | 0.0   | 0.0 | 45.0   | 0.0 | 0.0 | T ON BOTM 0147 hr             |
| B1. Final Flow | 0.0   | 0.0 | 78.0   | 0.0 | 0.0 | T OPEN 0149 hr                |
| C. In Shut-in  | 0.0   | 0.0 | 1269.0 | 0.0 | 0.0 | T PULLED 0534 hr              |
| D. Init Flow   | 0.0   | 0.0 | 144.0  | 0.0 | 0.0 | T OUT 0900 hr                 |
| E. Final Flow  | 0.0   | 0.0 | 160.0  | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 0.0   | 0.0 | 1211.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 0.0   | 0.0 | 2680.0 | 0.0 | 0.0 | Tool Wt. 1800.00 lbs          |
| Inside/Outside | o     | O   | I      | O   |     | Wt Set On Packer 25000.00 lbs |
|                |       |     |        |     |     | Wt Pulled Loose 105000.00 lbs |
|                |       |     |        |     |     | Initial Str Wt 62000.00 lbs   |
|                |       |     |        |     |     | Unseated Str Wt 62000.00 lbs  |
|                |       |     |        |     |     | Bot Choke 0.75 in             |
|                |       |     |        |     |     | Hole Size 7.88 in             |
|                |       |     |        |     |     | D Col. ID 2.25 in             |
|                |       |     |        |     |     | D. Pipe ID 5917.00 in         |
|                |       |     |        |     |     | D.C. Length 621.00 ft         |
|                |       |     |        |     |     | D.P. Length 0.00 ft           |

RECOVERY

Tot Fluid 130.00 ft of 61.00 ft in DC and 69.00 ft in DP  
 130.00 ft of 100% Drilling Mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Initial Shut In:

Final Flow:

Now Blow

Fianl Shut In:

SAMPLES: NO

SENT TO:

MUD DATA-----

| Mud Type   | Chemical  |
|------------|-----------|
| Weight     | 9.20 lb/c |
| Vis.       | 50.00 S/L |
| W.L.       | 8.60 in3  |
| F.C.       | 0.00 in   |
| Mud Drop N |           |

|                |                 |
|----------------|-----------------|
| Amt. of fill   | 2.00 ft         |
| Btm. H. Temp.  | 126.00 F        |
| Hole Condition | fair            |
| % Porosity     | 0.00            |
| Packer Size    | 6.75 in         |
| No. of Packers | 3               |
| Cushion Amt.   | 0.00            |
| Cushion Type   |                 |
| Reversed Out N |                 |
| Tool Chased N  |                 |
| Tester         | Mike Colantonio |
| Co. Rep.       | Chuck Schmaltz  |
| Contr.         | Val Energy      |
| Rig #          | 1               |
| Unit #         |                 |
| Pump T.        |                 |

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV. STRADDLE

WELL NAME: MLP Young Trust #4-5

LOCATION : 5-31s-34w

TICKET No. 9103 D.S.T. No. 6 DATE 1-20-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 22ft

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 43ft

TOTAL TOOL ..... 65ft

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 2 Single 1 Total 154ft

TOTAL ASSEMBLY ..... 219ft

D.C. ABOVE TOOLS.Stands1 Single Total 61ft

D.P. ABOVE TOOLS.Stands89 Single 1 Total 5418ft

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5763ft

TOTAL DEPTH ..... 5727ft

TOTAL DRILL PIPE ABOVE K.B. .... 36ft

REMARKS:

|                         |      |
|-------------------------|------|
| P.O. SUB Top Tool       | 5507 |
| C.O. SUB                |      |
| S.I. TOOL 5ft           | 5513 |
| HMV 5ft                 | 5518 |
| JARS 5ft                | 5523 |
| SAFETY JOINT 2ft        | 5525 |
| PACKER 5ft              | 5530 |
| PACKER 8ft Shale Packer | 5538 |
| DEPTH                   |      |
| STUBB 2ft               | 5540 |
| ANCHOR                  |      |
| 62ft Drlp Pipe & subs   | 5602 |
| 13ft Perf               | 5615 |
| Ak-1 rec                | 5614 |
| 1ft Blank off sub       | 5616 |
| T.C.                    |      |
| DEPTH                   |      |
| PACKER 5ft Straddle     | 5621 |
| 1ft Stub                | 5622 |
| 7ft perf                | 5629 |
| 95ft Drlg pipe & subs   | 5724 |
| AK-1 Rec                | 5724 |
| BULLNOSE                |      |
| T.D. 3ft bullplug       | 5727 |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 9103 DST#6 MLP Young Trust #4-5 Hugoton Energy Corp.  
 01/20/97 TIME: 01:20:22

|                | Time   | Pressure<br>PSIg | delta P<br>PSIg | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|----------------|--------|------------------|-----------------|----------------|-----------|----------|
| Initial Hydro. | 114.00 | 2783.5           | 0.0             | 118.40         |           |          |
| Start Flow 1   | 0.00   | 45.0             | 0.0             | 118.71         |           |          |
|                | 1.00   | 51.7             | 6.6             | 119.06         |           |          |
|                | 2.00   | 53.8             | 8.8             | 119.37         |           |          |
|                | 3.00   | 58.5             | 13.5            | 119.67         |           |          |
|                | 4.00   | 62.6             | 17.6            | 119.96         |           |          |
|                | 5.00   | 62.5             | 17.5            | 120.28         |           |          |
|                | 6.00   | 66.9             | 21.9            | 120.60         |           |          |
|                | 7.00   | 68.8             | 23.8            | 120.94         |           |          |
|                | 8.00   | 64.5             | 19.4            | 121.29         |           |          |
|                | 9.00   | 76.1             | 31.0            | 121.68         |           |          |
|                | 10.00  | 81.9             | 36.9            | 122.06         |           |          |
|                | 11.00  | 78.4             | 33.4            | 122.47         |           |          |
|                | 12.00  | 67.9             | 22.9            | 122.85         |           |          |
|                | 13.00  | 94.7             | 49.7            | 123.21         |           |          |
|                | 14.00  | 85.8             | 40.8            | 123.56         |           |          |
|                | 15.00  | 77.5             | 32.4            | 123.89         |           |          |
|                | 16.00  | 83.7             | 38.7            | 124.20         |           |          |
|                | 17.00  | 88.5             | 43.5            | 124.47         |           |          |
|                | 18.00  | 100.3            | 55.2            | 124.74         |           |          |
|                | 19.00  | 88.9             | 43.8            | 125.00         |           |          |
|                | 20.00  | 77.9             | 32.9            | 125.25         |           |          |
|                | 21.00  | 104.1            | 59.0            | 125.50         |           |          |
|                | 22.00  | 83.0             | 38.0            | 125.72         |           |          |
|                | 23.00  | 120.3            | 75.3            | 125.94         |           |          |
|                | 24.00  | 132.0            | 87.0            | 126.13         |           |          |
|                | 25.00  | 75.9             | 30.8            | 126.31         |           |          |
|                | 26.00  | 76.5             | 31.5            | 126.49         |           |          |
|                | 27.00  | 77.3             | 32.3            | 126.66         |           |          |
|                | 28.00  | 77.9             | 32.9            | 126.83         |           |          |
| End Flow 1     | 29.00  | 78.8             | 33.7            | 127.00         |           |          |
| Start Shutin 1 | 0.00   | 78.8             | 0.0             | 127.00         | 0.0000    | 0.006    |
|                | 1.00   | 81.0             | 2.2             | 127.16         | 30.0000   | 0.007    |
|                | 2.00   | 79.5             | 0.7             | 127.36         | 15.5000   | 0.006    |
|                | 3.00   | 79.9             | 1.1             | 127.67         | 10.6667   | 0.006    |
|                | 4.00   | 95.1             | 16.3            | 128.11         | 8.2500    | 0.009    |
|                | 5.00   | 122.1            | 43.3            | 128.62         | 6.8000    | 0.015    |
|                | 6.00   | 161.8            | 83.0            | 129.14         | 5.8333    | 0.026    |
|                | 7.00   | 220.2            | 141.4           | 129.63         | 5.1429    | 0.048    |
|                | 8.00   | 302.2            | 223.4           | 130.08         | 4.6250    | 0.091    |
|                | 9.00   | 402.3            | 323.5           | 130.50         | 4.2222    | 0.162    |
|                | 10.00  | 503.9            | 425.2           | 130.88         | 3.9000    | 0.254    |
|                | 11.00  | 592.5            | 513.8           | 131.21         | 3.6364    | 0.351    |
|                | 12.00  | 663.9            | 585.1           | 131.52         | 3.4167    | 0.441    |
|                | 13.00  | 721.6            | 642.8           | 131.79         | 3.2308    | 0.521    |
|                | 14.00  | 768.8            | 690.1           | 132.05         | 3.0714    | 0.591    |
|                | 15.00  | 808.6            | 729.8           | 132.29         | 2.9333    | 0.654    |
|                | 16.00  | 840.8            | 762.0           | 132.51         | 2.8125    | 0.707    |
|                | 17.00  | 868.9            | 790.1           | 132.71         | 2.7059    | 0.755    |
|                | 18.00  | 894.6            | 815.8           | 132.89         | 2.6111    | 0.800    |
|                | 19.00  | 918.1            | 839.3           | 133.04         | 2.5263    | 0.843    |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9103 DST#6 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/20/97

TIME: 01:20:22

|                     | Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|---------------------|-------|------------------|-----------------|----------------|-----------|----------|
|                     | 20.00 | 939.4            | 860.7           | 133.22         | 2.4500    | 0.883    |
|                     | 21.00 | 958.9            | 880.1           | 133.36         | 2.3810    | 0.919    |
|                     | 22.00 | 976.8            | 898.0           | 133.51         | 2.3182    | 0.954    |
|                     | 23.00 | 993.4            | 914.6           | 133.64         | 2.2609    | 0.987    |
|                     | 24.00 | 1008.7           | 929.9           | 133.76         | 2.2083    | 1.018    |
|                     | 25.00 | 1023.0           | 944.2           | 133.88         | 2.1600    | 1.047    |
|                     | 26.00 | 1036.4           | 957.6           | 134.00         | 2.1154    | 1.074    |
|                     | 27.00 | 1048.9           | 970.1           | 134.10         | 2.0741    | 1.100    |
|                     | 28.00 | 1060.8           | 982.0           | 134.21         | 2.0357    | 1.125    |
|                     | 29.00 | 1072.0           | 993.2           | 134.30         | 2.0000    | 1.149    |
|                     | 30.00 | 1082.7           | 1003.9          | 134.40         | 1.9667    | 1.172    |
|                     | 31.00 | 1092.8           | 1014.0          | 134.48         | 1.9355    | 1.194    |
|                     | 32.00 | 1102.5           | 1023.7          | 134.57         | 1.9062    | 1.215    |
|                     | 33.00 | 1111.7           | 1032.9          | 134.64         | 1.8788    | 1.236    |
|                     | 34.00 | 1120.6           | 1041.8          | 134.74         | 1.8529    | 1.256    |
|                     | 35.00 | 1128.9           | 1050.1          | 134.82         | 1.8286    | 1.274    |
|                     | 36.00 | 1137.0           | 1058.2          | 134.89         | 1.8056    | 1.293    |
|                     | 37.00 | 1144.8           | 1066.0          | 134.97         | 1.7838    | 1.311    |
|                     | 38.00 | 1152.3           | 1073.5          | 134.99         | 1.7632    | 1.328    |
|                     | 39.00 | 1159.5           | 1080.7          | 135.10         | 1.7436    | 1.344    |
|                     | 40.00 | 1166.4           | 1087.6          | 135.17         | 1.7250    | 1.361    |
|                     | 41.00 | 1173.1           | 1094.3          | 135.24         | 1.7073    | 1.376    |
|                     | 42.00 | 1179.5           | 1100.7          | 135.30         | 1.6905    | 1.391    |
|                     | 43.00 | 1185.7           | 1106.9          | 135.36         | 1.6744    | 1.406    |
|                     | 44.00 | 1191.7           | 1112.9          | 135.42         | 1.6591    | 1.420    |
|                     | 45.00 | 1197.6           | 1118.8          | 135.47         | 1.6444    | 1.434    |
|                     | 46.00 | 1203.1           | 1124.3          | 135.54         | 1.6304    | 1.448    |
|                     | 47.00 | 1208.5           | 1129.8          | 135.59         | 1.6170    | 1.461    |
|                     | 48.00 | 1213.8           | 1135.0          | 135.65         | 1.6042    | 1.473    |
|                     | 49.00 | 1218.9           | 1140.1          | 135.70         | 1.5918    | 1.486    |
|                     | 50.00 | 1223.9           | 1145.1          | 135.76         | 1.5800    | 1.498    |
|                     | 51.00 | 1228.7           | 1149.9          | 135.80         | 1.5686    | 1.510    |
|                     | 52.00 | 1233.4           | 1154.6          | 135.85         | 1.5577    | 1.521    |
|                     | 53.00 | 1237.9           | 1159.2          | 135.90         | 1.5472    | 1.533    |
|                     | 54.00 | 1242.4           | 1163.6          | 135.96         | 1.5370    | 1.543    |
|                     | 55.00 | 1246.6           | 1167.8          | 135.99         | 1.5273    | 1.554    |
|                     | 56.00 | 1250.8           | 1172.0          | 136.04         | 1.5179    | 1.564    |
|                     | 57.00 | 1254.8           | 1176.0          | 136.09         | 1.5088    | 1.575    |
|                     | 58.00 | 1258.7           | 1179.9          | 136.13         | 1.5000    | 1.584    |
|                     | 59.00 | 1262.6           | 1183.8          | 136.17         | 1.4915    | 1.594    |
|                     | 60.00 | 1266.4           | 1187.6          | 136.21         | 1.4833    | 1.604    |
| ***** End Shut-in 1 | 61.00 | 1270.0           | 1191.2          | 136.25         | 1.4754    | 1.613    |
| ***** Start Flow 2  | 0.00  | 144.2            | 0.0             | 136.36         |           |          |
|                     | 1.00  | 133.8            | -10.4           | 136.36         |           |          |
|                     | 2.00  | 126.3            | -17.9           | 136.39         |           |          |
|                     | 3.00  | 118.5            | -25.7           | 136.41         |           |          |
|                     | 4.00  | 182.9            | 38.7            | 136.45         |           |          |
|                     | 5.00  | 274.7            | 130.5           | 136.50         |           |          |
|                     | 6.00  | 300.8            | 156.6           | 136.55         |           |          |
|                     | 7.00  | 238.5            | 94.3            | 136.60         |           |          |
|                     | 8.00  | 94.5             | -49.7           | 136.64         |           |          |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9103 DST#6 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/20/97

TIME: 01:20:22

| Time                 | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6      |
|----------------------|------------------|-----------------|----------------|-----------|---------------|
| 9.00                 | 91.4             | -52.8           | 136.65         |           |               |
| 10.00                | 95.8             | -48.4           | 136.64         |           |               |
| 11.00                | 102.3            | -41.9           | 136.61         |           |               |
| 12.00                | 109.2            | -35.0           | 136.56         |           |               |
| 13.00                | 134.2            | -10             | 136.52         |           |               |
| 14.00                | 177.8            | 33.6            | 136.49         |           |               |
| 15.00                | 95.0             | -49.2           | 136.46         |           |               |
| 16.00                | 95.7             | -48.5           | 136.46         |           |               |
| 17.00                | 102.4            | -41.8           | 136.47         |           |               |
| 18.00                | 104.9            | -39.3           | 136.49         |           |               |
| 19.00                | 129.8            | -14.4           | 136.51         |           |               |
| 20.00                | 99.2             | -45.0           | 136.55         |           |               |
| 21.00                | 98.9             | -45.3           | 136.59         |           |               |
| 22.00                | 111.5            | -32.7           | 136.64         |           |               |
| 23.00                | 101.3            | -42.9           | 136.69         |           |               |
| 24.00                | 120.7            | -23.5           | 136.72         |           |               |
| 25.00                | 128.5            | -15.7           | 136.78         |           |               |
| 26.00                | 150.5            | 6.3             | 136.82         |           |               |
| 27.00                | 182.1            | 37.9            | 136.88         |           |               |
| 28.00                | 207.1            | 62.9            | 136.92         |           |               |
| 29.00                | 243.0            | 98.8            | 136.96         |           |               |
| 30.00                | 298.5            | 154.3           | 137.01         |           |               |
| 31.00                | 363.8            | 219.6           | 137.06         |           |               |
| 32.00                | 281.3            | 137.1           | 137.10         |           |               |
| 33.00                | 284.9            | 140.7           | 137.13         |           |               |
| 34.00                | 354.0            | 209.8           | 137.18         |           |               |
| 35.00                | 359.7            | 215.5           | 137.23         |           |               |
| 36.00                | 120.4            | -23.8           | 137.26         |           |               |
| 37.00                | 113.4            | -30.8           | 137.30         |           |               |
| 38.00                | 132.7            | -11.5           | 137.34         |           |               |
| 39.00                | 156.4            | 12.2            | 137.38         |           |               |
| 40.00                | 136.4            | -7.8            | 137.41         |           |               |
| 41.00                | 160.6            | 16.4            | 137.44         |           |               |
| ***** End Flow 2     |                  |                 |                |           |               |
| ***** Start Shutin 2 | 0.00             | 160.6           | 0.0            | 137.44    | 0.0000 0.026  |
|                      | 1.00             | 119.9           | -40.7          | 137.48    | 71.0000 0.014 |
|                      | 2.00             | 138.0           | -22.6          | 137.51    | 36.0000 0.019 |
|                      | 3.00             | 159.4           | -1.2           | 137.54    | 24.3333 0.025 |
|                      | 4.00             | 185.3           | 24.8           | 137.58    | 18.5000 0.034 |
|                      | 5.00             | 216.6           | 56.1           | 137.61    | 15.0000 0.047 |
|                      | 6.00             | 254.2           | 93.6           | 137.63    | 12.6667 0.065 |
|                      | 7.00             | 298.7           | 138.2          | 137.67    | 11.0000 0.089 |
|                      | 8.00             | 350.0           | 189.5          | 137.70    | 9.7500 0.123  |
|                      | 9.00             | 406.3           | 245.7          | 137.73    | 8.7778 0.165  |
|                      | 10.00            | 464.6           | 304.0          | 137.77    | 8.0000 0.216  |
|                      | 11.00            | 521.6           | 361.0          | 137.81    | 7.3636 0.272  |
|                      | 12.00            | 574.3           | 413.8          | 137.85    | 6.8333 0.330  |
|                      | 13.00            | 621.8           | 461.2          | 137.89    | 6.3846 0.387  |
|                      | 14.00            | 663.6           | 503.0          | 137.93    | 6.0000 0.440  |
|                      | 15.00            | 700.2           | 539.7          | 137.96    | 5.6667 0.490  |
|                      | 16.00            | 732.5           | 571.9          | 138.00    | 5.3750 0.536  |
|                      | 17.00            | 761.0           | 600.4          | 138.04    | 5.1176 0.579  |

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9103 DST#6 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/20/97

TIME: 01:20:22

| Time  | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|-------|------------------|-----------------|----------------|-----------|----------|
| 18.00 | 786.3            | 625.7           | 138.06         | 4.8889    | 0.618    |
| 19.00 | 809.0            | 648.4           | 138.11         | 4.6842    | 0.654    |
| 20.00 | 829.7            | 669.2           | 138.14         | 4.5000    | 0.688    |
| 21.00 | 848.4            | 687.8           | 138.18         | 4.3333    | 0.720    |
| 22.00 | 865.4            | 704.8           | 138.21         | 4.1818    | 0.749    |
| 23.00 | 881.1            | 720.6           | 138.24         | 4.0435    | 0.776    |
| 24.00 | 895.5            | 734.9           | 138.27         | 3.9167    | 0.802    |
| 25.00 | 908.5            | 748.0           | 138.30         | 3.8000    | 0.825    |
| 26.00 | 920.8            | 760.2           | 138.32         | 3.6923    | 0.848    |
| 27.00 | 930.2            | 769.6           | 138.35         | 3.5926    | 0.865    |
| 28.00 | 939.6            | 779.1           | 138.37         | 3.5000    | 0.883    |
| 29.00 | 953.4            | 792.9           | 138.39         | 3.4138    | 0.909    |
| 30.00 | 963.5            | 802.9           | 138.41         | 3.3333    | 0.928    |
| 31.00 | 972.6            | 812.1           | 138.44         | 3.2581    | 0.946    |
| 32.00 | 981.5            | 821.0           | 138.46         | 3.1875    | 0.963    |
| 33.00 | 989.7            | 829.1           | 138.47         | 3.1212    | 0.980    |
| 34.00 | 997.6            | 837.1           | 138.50         | 3.0588    | 0.995    |
| 35.00 | 1005.2           | 844.6           | 138.52         | 3.0000    | 1.010    |
| 36.00 | 1012.4           | 851.9           | 138.55         | 2.9444    | 1.025    |
| 37.00 | 1019.4           | 858.8           | 138.56         | 2.8919    | 1.039    |
| 38.00 | 1026.0           | 865.4           | 138.58         | 2.8421    | 1.053    |
| 39.00 | 1032.2           | 871.7           | 138.59         | 2.7949    | 1.066    |
| 40.00 | 1038.8           | 878.3           | 138.61         | 2.7500    | 1.079    |
| 41.00 | 1044.7           | 884.1           | 138.63         | 2.7073    | 1.091    |
| 42.00 | 1050.1           | 889.5           | 138.65         | 2.6667    | 1.103    |
| 43.00 | 1055.5           | 895.0           | 138.65         | 2.6279    | 1.114    |
| 44.00 | 1061.0           | 900.4           | 138.67         | 2.5909    | 1.126    |
| 45.00 | 1066.1           | 905.6           | 138.68         | 2.5556    | 1.137    |
| 46.00 | 1071.1           | 910.6           | 138.70         | 2.5217    | 1.147    |
| 47.00 | 1075.9           | 915.4           | 138.71         | 2.4894    | 1.158    |
| 48.00 | 1080.7           | 920.1           | 138.73         | 2.4583    | 1.168    |
| 49.00 | 1085.3           | 924.8           | 138.74         | 2.4286    | 1.178    |
| 50.00 | 1090.2           | 929.6           | 138.76         | 2.4000    | 1.188    |
| 51.00 | 1094.6           | 934.1           | 138.77         | 2.3725    | 1.198    |
| 52.00 | 1098.8           | 938.3           | 138.77         | 2.3462    | 1.207    |
| 53.00 | 1102.9           | 942.4           | 138.79         | 2.3208    | 1.216    |
| 54.00 | 1107.1           | 946.5           | 138.81         | 2.2963    | 1.226    |
| 55.00 | 1111.0           | 950.4           | 138.82         | 2.2727    | 1.234    |
| 56.00 | 1114.6           | 954.0           | 138.82         | 2.2500    | 1.242    |
| 57.00 | 1118.2           | 957.6           | 138.84         | 2.2281    | 1.250    |
| 58.00 | 1121.9           | 961.3           | 138.84         | 2.2069    | 1.259    |
| 59.00 | 1125.5           | 964.9           | 138.86         | 2.1864    | 1.267    |
| 60.00 | 1129.0           | 968.4           | 138.88         | 2.1667    | 1.275    |
| 61.00 | 1132.4           | 971.8           | 138.88         | 2.1475    | 1.282    |
| 62.00 | 1135.7           | 975.1           | 138.89         | 2.1290    | 1.290    |
| 63.00 | 1139.0           | 978.5           | 138.93         | 2.1111    | 1.297    |
| 64.00 | 1142.3           | 981.7           | 138.92         | 2.0938    | 1.305    |
| 65.00 | 1145.5           | 984.9           | 138.92         | 2.0769    | 1.312    |
| 66.00 | 1148.5           | 988.0           | 138.93         | 2.0606    | 1.319    |
| 67.00 | 1151.6           | 991.0           | 138.94         | 2.0448    | 1.326    |
| 68.00 | 1154.6           | 994.0           | 138.95         | 2.0294    | 1.333    |

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9103 DST#6 MLP Young Trust #4-5 Hugoton Energy Corp.

DATE: 01/20/97

TIME: 01:20:22  
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|                     | Time   | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P^2/10^6 |
|---------------------|--------|------------------|-----------------|----------------|-----------|----------|
|                     | 69.00  | 1157.6           | 997.0           | 138.95         | 2.0145    | 1.340    |
|                     | 70.00  | 1160.4           | 999.9           | 138.97         | 2.0000    | 1.347    |
|                     | 71.00  | 1163.2           | 1002.7          | 138.98         | 1.9859    | 1.353    |
|                     | 72.00  | 1166.0           | 1005.4          | 138.98         | 1.9722    | 1.360    |
|                     | 73.00  | 1168.8           | 1008.2          | 139.00         | 1.9589    | 1.366    |
|                     | 74.00  | 1171.5           | 1010.9          | 139.00         | 1.9459    | 1.372    |
|                     | 75.00  | 1174.1           | 1013.6          | 139.02         | 1.9333    | 1.379    |
|                     | 76.00  | 1176.7           | 1016.2          | 139.04         | 1.9211    | 1.385    |
|                     | 77.00  | 1179.2           | 1018.7          | 139.03         | 1.9091    | 1.391    |
|                     | 78.00  | 1181.8           | 1021.2          | 139.03         | 1.8974    | 1.397    |
|                     | 79.00  | 1184.2           | 1023.7          | 139.05         | 1.8861    | 1.402    |
|                     | 80.00  | 1186.7           | 1026.2          | 139.05         | 1.8750    | 1.408    |
|                     | 81.00  | 1189.1           | 1028.5          | 139.06         | 1.8642    | 1.414    |
|                     | 82.00  | 1191.4           | 1030.9          | 139.06         | 1.8537    | 1.419    |
|                     | 83.00  | 1193.7           | 1033.1          | 139.08         | 1.8434    | 1.425    |
|                     | 84.00  | 1196.0           | 1035.4          | 139.08         | 1.8333    | 1.430    |
|                     | 85.00  | 1198.3           | 1037.7          | 139.10         | 1.8235    | 1.436    |
|                     | 86.00  | 1200.5           | 1040.0          | 139.11         | 1.8140    | 1.441    |
|                     | 87.00  | 1202.7           | 1042.1          | 139.11         | 1.8046    | 1.446    |
|                     | 88.00  | 1204.8           | 1044.3          | 139.12         | 1.7955    | 1.452    |
|                     | 89.00  | 1207.0           | 1046.4          | 139.12         | 1.7865    | 1.457    |
|                     | 90.00  | 1209.0           | 1048.4          | 139.12         | 1.7778    | 1.462    |
| ***** End Shut-in 2 | 91.00  | 1211.1           | 1050.5          | 139.15         | 1.7692    | 1.467    |
| ***** Final Hydro.  | 344.00 | 2679.8           | 0.0             | 139.20         |           |          |

# TEST HISTORY

9103 DST#6 MLP Young Trust #4-5 Hugoton Energy Corp.

## Flag Points

t (Min.) P (PSig)

A: 0.00 2783.49  
B: 0.00 45.05  
C: 29.00 78.79  
D: 61.00 1269.95  
E: 0.00 144.20  
F: 41.00 160.56  
G: 91.00 1211.09  
Q: 0.00 2679.77

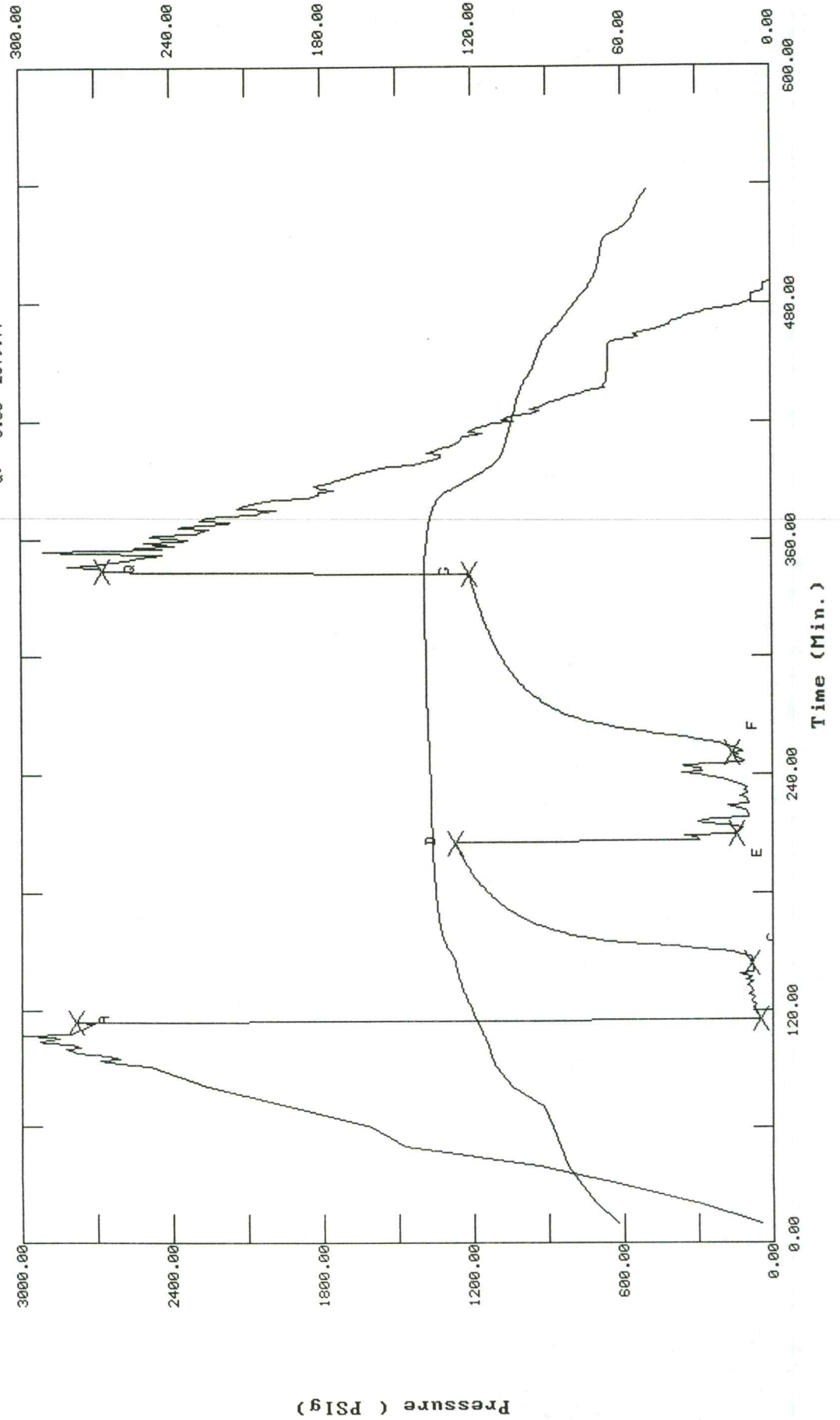
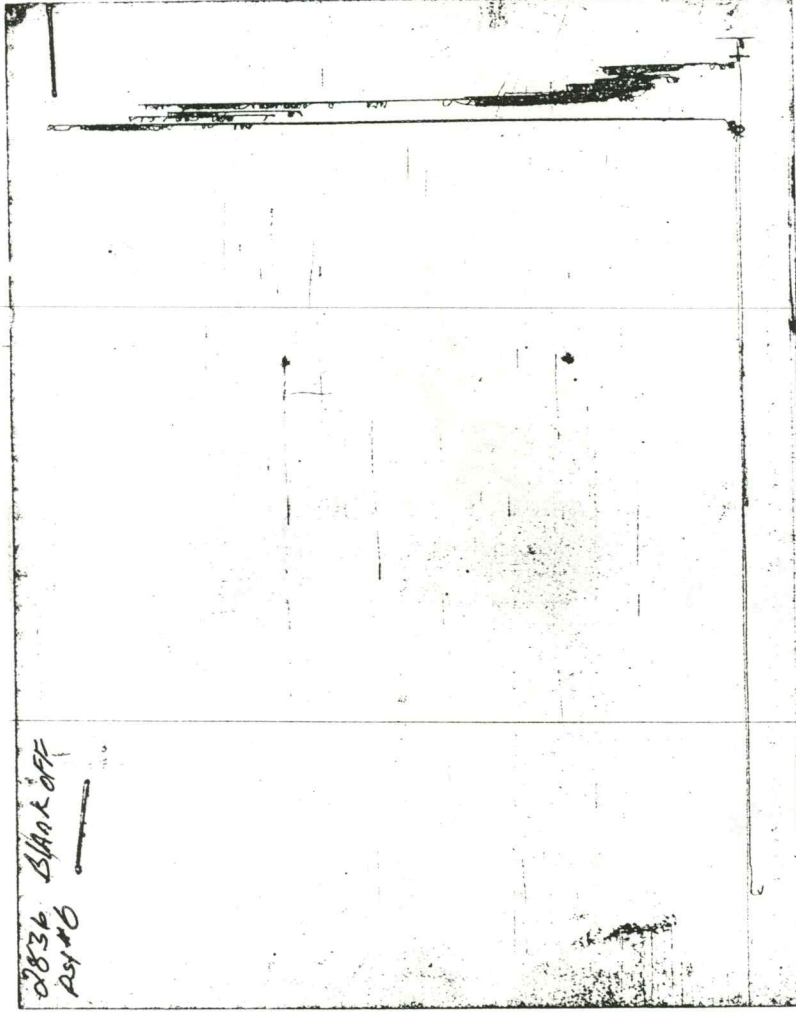


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Nº 9103

|                                             |                                         |                                                          |
|---------------------------------------------|-----------------------------------------|----------------------------------------------------------|
| Well Name & No. <u>MLP Young Trust #4-5</u> | Test No. <u>#6</u>                      | Date <u>1-20-97</u>                                      |
| Company <u>Hugoton Energy Corp</u>          | Zone Tested <u>Chester</u>              |                                                          |
| Address <u>Wichita Ks</u>                   | Elevation <u>2809</u> KB <u>2798</u> GL |                                                          |
| Co. Rep / Geo. <u>Chuck Schmaltz</u>        | Cont. <u>V/A Energy Rig #1</u>          | Est. Ft. of Pay <u>20</u> Por. <u>    </u> %             |
| Location: Sec. <u>5</u> Twp. <u>31S</u>     | Rge. <u>34W</u>                         | Co. <u>Seward</u> State <u>KS</u>                        |
| No. of Copies <u>    </u>                   | Distribution Sheet (Y, N) <u>    </u>   | Turnkey (Y, N) <u>    </u> Evaluation (Y, N) <u>    </u> |

|                                                              |                                         |                                     |
|--------------------------------------------------------------|-----------------------------------------|-------------------------------------|
| Interval Tested <u>5537-5620</u>                             | Initial Str Wt./Lbs. <u>62000</u>       | Unseated Str Wt./Lbs. <u>62000</u>  |
| Anchor Length <u>83'</u>                                     | Wt. Set Lbs. <u>25000</u>               | Wt. Pulled Loose/Lbs. <u>105000</u> |
| Top Packer Depth <u>5529</u>                                 | Hole Size — 7 7/8" <u>X</u>             | Rubber Size — 6 3/4" <u>X</u>       |
| Bottom Packer Depth <u>5620</u>                              | Wt. Pipe I.D. — 2.7 Ft. Run <u>    </u> |                                     |
| Total Depth <u>5727</u>                                      | Drill Collar — 2.25 Ft. Run <u>61'</u>  |                                     |
| Mud Wt. <u>9.2</u> LCM <u>1</u> Vis. <u>50</u> WL <u>8.6</u> | Drill Pipe Size <u>4 1/2 X-0</u>        | Ft. Run <u>5917</u>                 |
| Blow Description <u>Weak Blow Built to 2 1/2 in Blow</u>     |                                         |                                     |

2nd opening NO Blow

|                                        |                     |                       |                                     |
|----------------------------------------|---------------------|-----------------------|-------------------------------------|
| Recovery — Total Feet <u>130</u>       | Ft. in DC <u>61</u> | Ft. in WP <u>    </u> | Ft. in DP <u>69</u>                 |
| Rec. <u>    </u> Feet Of <u>    </u>   | %gas <u>    </u>    | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>130</u> Feet Of <u>Dry Mud</u> | %gas <u>    </u>    | %oil <u>    </u>      | %water <u>100</u> %mud <u>    </u>  |
| Rec. <u>    </u> Feet Of <u>    </u>   | %gas <u>    </u>    | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>    </u> Feet Of <u>    </u>   | %gas <u>    </u>    | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |
| Rec. <u>    </u> Feet Of <u>    </u>   | %gas <u>    </u>    | %oil <u>    </u>      | %water <u>    </u> %mud <u>    </u> |

BHT 126 °F Gravity      °API D@      °F Corrected Gravity      °API

RW      @      °F Chlorides      ppm Recovery Chlorides 30200 ppm System

|                                                         |                               |                                          |
|---------------------------------------------------------|-------------------------------|------------------------------------------|
| (A) Initial Hydrostatic Mud <u>2783</u> <u>2783</u> PSI | Recorder No. <u>2346</u>      | T-Started <u>12:00 AM</u>                |
| (B) First Initial Flow Pressure <u>45</u> PSI           | @ (depth) <u>5538</u>         | T-Open <u>1:49</u>                       |
| (C) First Final Flow Pressure <u>78</u> PSI             | Recorder No. <u>2896</u>      | T-Pulled <u>5:34</u>                     |
| (D) Initial Shut-in Pressure <u>1269</u> PSI            | @ (depth) <u>5614</u>         | T-Out <u>9:00 AM</u>                     |
| (E) Second Initial Flow Pressure <u>144</u> PSI         | Recorder No. <u>1055</u>      |                                          |
| (F) Second Final Flow Pressure <u>160</u> PSI           | @ (depth) <u>5724</u>         |                                          |
| (G) Final Shut-in Pressure <u>1211</u> PSI              | Initial Opening <u>30 min</u> | Test <u>✓ Straddle 800</u>               |
| (H) Final Hydrostatic Mud <u>2710</u> <u>2680</u> PSI   | Initial Shut-in <u>60 min</u> | Jars <u>✓ 200</u>                        |
|                                                         | Final Flow <u>45 min</u>      | Safety Joint <u>✓ 50</u>                 |
|                                                         | Final Shut-in <u>90 min</u>   | Straddle <u>✓ 250</u>                    |
|                                                         |                               | Circ. Sub <u>✓ N/C</u>                   |
|                                                         |                               | Sampler <u>    </u>                      |
|                                                         |                               | Extra Packer <u>✓ 1 Shale Packer 150</u> |
|                                                         |                               | Elect. Rec. <u>✓ 150</u>                 |
|                                                         |                               | Other <u>    </u>                        |

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Approved By Chuck Schmaltz

Our Representative Mike Coleman

TOTAL PRICE \$ 1700