

Phone
(303) 830-8080

Star Hughes

Denver Center Bldg.
1776 Lincoln St., Suite 401
Denver, CO 80203

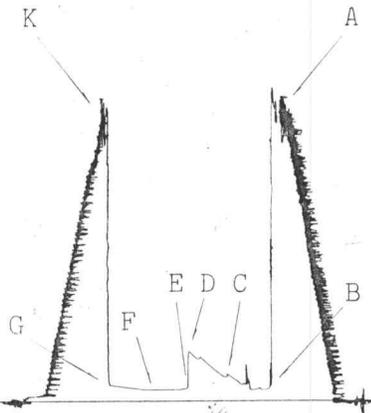
| | | |
|-----------------------------------|--------------------------------------|---------------------------------|
| Contractor <u>Red Tiger Drlg.</u> | Surface Choke <u>1"</u> | Mud Type <u>Starch/Salt/Gel</u> |
| Rig No. <u>4</u> | Bottom Choke <u>5/8"</u> | Weight <u>10.1</u> |
| Spot <u>NW/SE/NE</u> | Hole Size <u>7 7/8"</u> | Viscosity <u>39</u> |
| Sec. <u>13</u> | Core Hole Size <u>--</u> | Water Loss <u>12.2</u> |
| Twp. <u>19 S</u> | DP Size & Wt. <u>4 1/2" XH 16.60</u> | Filter Cake <u>1/32</u> |
| Rng. <u>13 W</u> | Wt. Pipe <u>4 1/2" XH 800'</u> | Resistivity <u>-- @ --</u> OF |
| Field <u>--</u> | I.D. of DC <u>--</u> | <u>110,000</u> Ppm. NaCl |
| County <u>Barton</u> | Length of DC <u>None</u> | B.H.T. <u>104</u> OF |
| State <u>Kansas</u> | Total Depth <u>3269'</u> | Co. Rep. <u>John M. Japp</u> |
| Elevation <u>--</u> | Type Test <u>Conventional</u> | Tester <u>John Riedl</u> |
| Formation <u>Kansas City</u> | Interval <u>3201' - 3269'</u> | |

Operator
Ticket No.
Date
L.G. Stephenson & Co., Inc.
01597
10/24/82
Well Name & No.
Location
County, State
Button "A" #1
NW/SE/NE S-13
Barton County, Kansas
T-19S R-13W
Interval
Formation
DST No.
1
3201' - 3269'
Kansas City

| | REPORTED | CORRECTED |
|---------------|-------------------|-----------|
| Opened Tool @ | <u>14:30</u> | hrs. |
| Flow No. 1 | <u>30</u> | min. |
| Shut-in No. 1 | <u>30</u> | min. |
| Flow No. 2 | <u>30</u> | min. |
| Shut-in No. 2 | <u>30</u> | min. |
| Flow No. 3 | <u>None Taken</u> | min. |
| Shut-in No. 3 | <u>" "</u> | min. |

| |
|---------------------------------------|
| Recorder Type <u>Kuster AK-1</u> |
| No. <u>13212</u> Cap. <u>4725</u> psi |
| Depth <u>3264</u> feet |
| Inside <u>x</u> Outside |

| | | |
|---------------------|---|-------------|
| Initial Hydrostatic | A | <u>1770</u> |
| Final Hydrostatic | K | <u>1749</u> |
| Initial Flow | B | <u>74</u> |
| Final Initial Flow | C | <u>166</u> |
| Initial Shut-in | D | <u>310*</u> |
| Second Initial Flow | E | <u>83</u> |
| Second Final Flow | F | <u>72</u> |
| Second Shut-in | G | <u>102</u> |
| Third Initial Flow | H | |
| Third Final Flow | I | |
| Third Shut-in | J | |



Pipe Recovery: 60' Drilling mud = 0.44 bbl.

Surface blow:
1st flow: Tool opened with a fair blow, decreased to a very weak blow at end of flow period.

2nd flow: Tool opened with no blow and remained through flow period.

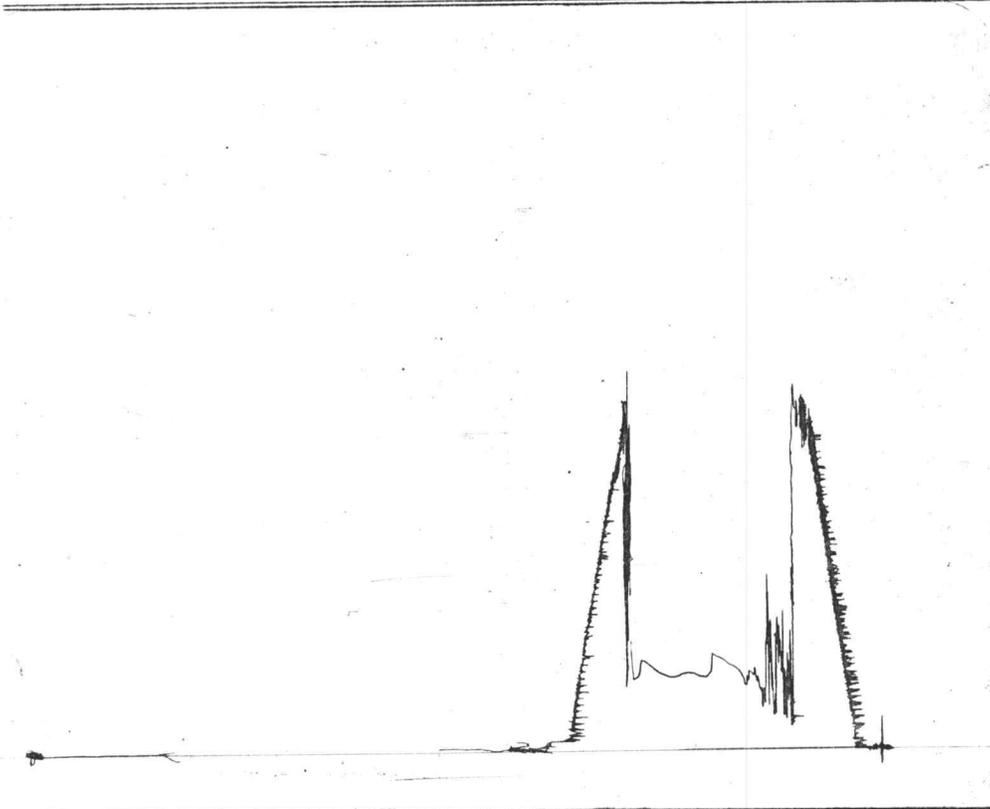
*Remarks: It was noted at surface that the tool slid during the initial flow period. It is indicated, that the tool slippage caused a false initial flow and initial shut-in build-up. However, the remainder of the test is considered conclusive. The pressure charts have not been time incremented as both shut-in pressure build-up curves have insufficient character to calculate reliable extrapolated reservoir pressures and indicate virtually no effective permeability in the formation within the interval tested.

Star Hughes

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

1
DST No.



Recorder Type Kuster AK-1
No. 1055 Cap. 4100 psi
Depth 3269 feet
Inside Outside ^x

Initial Hydrostatic A 1787
Final Hydrostatic K 1753
Initial Flow B 130
Final Initial Flow C 394
Initial Shut-in D 519
Second Initial Flow E 406
Second Final Flow F 393
Second Shut-in G 382
Third Initial Flow H _____
Third Final Flow I _____
Third Shut-in J _____

The erratic character of the pressure curves indicates that this recorder was plugged.

Pressure Below Bottom
Packer Bled To

Recorder Type _____
No. _____ Cap. _____ psi
Depth _____ feet
Inside Outside

Initial Hydrostatic A _____
Final Hydrostatic K _____
Initial Flow B _____
Final Initial Flow C _____
Initial Shut-in D _____
Second Initial Flow E _____
Second Final Flow F _____
Second Shut-in G _____
Third Initial Flow H _____
Third Final Flow I _____
Third Shut-in J _____

Pressure Below Bottom
Packer Bled To

Star Hughes

DISTRIBUTION OF FINAL REPORTS

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

(5) L.G. Stephenson & Co., Inc.
670 East Financial Center
7701 East Kellogg
Wichita, KS 67207

Phone
(303) 830-8080

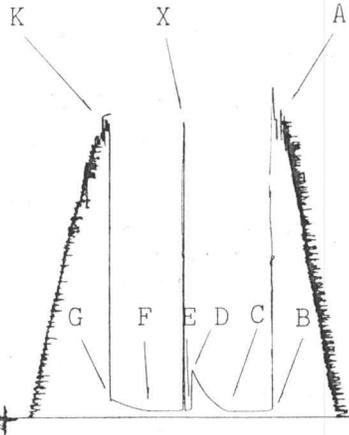
Star Hughes

Denver Center Bldg.
1776 Lincoln St., Suite 401
Denver, CO 80203

| | | | | | |
|------------|-----------------|----------------|-----------------|-------------|-------------------|
| Contractor | Red Tiger Drlg. | Surface Choke | 1" | Mud Type | Starch/Salt/Gel |
| Rig No. | 4 | Bottom Choke | 5/8" | Weight | 10.1 |
| Spot | NW/SE/NE | Hole Size | 7 7/8" | Viscosity | 44 |
| Sec. | 13 | Core Hole Size | -- | Water Loss | 12.2 |
| Twp. | 19 S | DP Size & Wt. | 4 1/2" XH 16.60 | Filter Cake | 1/32 |
| Rng. | 13 W | Wt. Pipe | 4 1/2" XH 800' | Resistivity | -- @ -- of |
| Field | -- | I.D. of DC | -- | | 110,000 Ppm. NaCl |
| County | Barton | Length of DC | None | B.H.T. | 106 of |
| State | Kansas | Total Depth | 3286' | Co. Rep. | John M. Japp |
| Elevation | -- | Type Test | Conventional | Tester | John Riedl |
| Formation | Kansas City | Interval | 3264' - 3286' | | |

| | REPORTED | CORRECTED |
|---------------|------------|-----------|
| Opened Tool @ | 02:00 | hrs. |
| Flow No. 1 | 30 | 31 min. |
| Shut-in No. 1 | 30 | 28 min. |
| Flow No. 2 | 30 | 30 min. |
| Shut-in No. 2 | 30 | 30 min. |
| Flow No. 3 | None Taken | min. |
| Shut-in No. 3 | " " | min. |

| | |
|---------------|---------------|
| Recorder Type | Kuster AK-1 |
| No. 13212 | Cap. 4725 psi |
| Depth | 3281 feet |
| Inside X | Outside |



| | | |
|---------------------|---|------|
| Initial Hydrostatic | A | 1813 |
| Final Hydrostatic | K | 1768 |
| Initial Flow | B | 55 |
| Final Initial Flow | C | 40 |
| Initial Shut-in | D | 296 |
| Second Initial Flow | E | 59 |
| Second Final Flow | F | 43 |
| Second Shut-in | G | 116 |
| Third Initial Flow | H | |
| Third Final Flow | I | |
| Third Shut-in | J | |

Pipe Recovery: 40' Drilling mud = 0.30 bbl.

Surface blow:
1st flow: Tool opened with a weak, 2" blow, decreased to a 1/2" blow at end of flow period.

2nd flow: Tool opened with no blow. Bypassed tool in 5 minutes (X on chart) reopened with a surge, died immediately and remained through flow period.

Operator: L.G. Stephenson & Co., Inc.
Ticket No. 01598
Date: 10/25/82
Well Name & No. Button "A" #1
Location: NW/SE/NE S-13
County, State: Barton County, Kansas
Interval: T-19S R-13W
Formation: Kansas City
DST No. 2
3264' - 3286'

Star Hughes

L.G. Stephenson & Co., Inc.
Operator

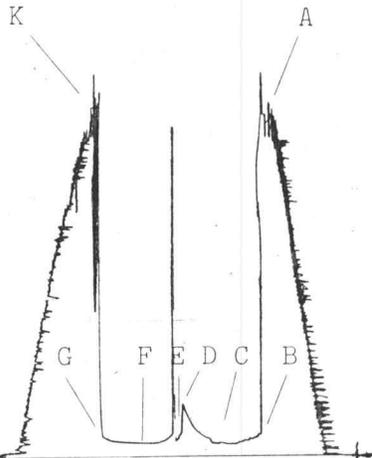
Button "A" #1
Well Name and No.

2
DST No.

Recorder Type Kuster AK-1
No. 1055 Cap. 4100 psi
Depth 3286 feet
Inside Outside x

Initial Hydrostatic A 1803
Final Hydrostatic K 1752
Initial Flow B 114
Final Initial Flow C 64
Initial Shut-in D 285
Second Initial Flow E 120
Second Final Flow F 67
Second Shut-in G 106
Third Initial Flow H _____
Third Final Flow I _____
Third Shut-in J _____

Pressure Below Bottom
Packer Bled To



Recorder Type _____
No. _____ Cap. _____ psi
Depth _____ feet
Inside Outside

Initial Hydrostatic A _____
Final Hydrostatic K _____
Initial Flow B _____
Final Initial Flow C _____
Initial Shut-in D _____
Second Initial Flow E _____
Second Final Flow F _____
Second Shut-in G _____
Third Initial Flow H _____
Third Final Flow I _____
Third Shut-in J _____

Pressure Below Bottom
Packer Bled To

Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

2

DST No.

RECORDER NO. 13212 DEPTH 3281 FT.

INITIAL SHUT-IN

INITIAL FLOW TIME 31 MINUTES

| O (MIN) | LOG T + O/O | PRESSURE (PSIG) |
|---------|-------------|-----------------|
| 2 | 1.217 | 43 |
| 4 | 0.942 | 47 |
| 6 | 0.790 | 57 |
| 8 | 0.687 | 69 |
| 10 | 0.612 | 81 |
| 12 | 0.554 | 95 |
| 14 | 0.507 | 110 |
| 16 | 0.467 | 127 |
| 18 | 0.434 | 146 |
| 20 | 0.406 | 169 |
| 22 | 0.381 | 194 |
| 24 | 0.360 | 226 |
| 26 | 0.340 | 261 |
| 28 | 0.323 | 296 |

EXTRAPOLATED PRESSURE:

INDETERMINATE

Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

2
DST No.

RECORDER NO. 13212 DEPTH 3281 FT.

FINAL SHUT-IN
TOTAL FLOW TIME 61 MINUTES

| O (MIN) | LOG T + O/O | PRESSURE (PSIG) |
|---------|-------------|-----------------|
| 2 | 1.498 | 43 |
| 4 | 1.210 | 45 |
| 6 | 1.047 | 47 |
| 8 | 0.935 | 51 |
| 10 | 0.851 | 55 |
| 12 | 0.784 | 59 |
| 14 | 0.728 | 63 |
| 16 | 0.682 | 70 |
| 18 | 0.642 | 74 |
| 20 | 0.607 | 81 |
| 22 | 0.576 | 88 |
| 24 | 0.549 | 95 |
| 26 | 0.524 | 101 |
| 28 | 0.502 | 109 |
| 30 | 0.481 | 116 |

EXTRAPOLATED PRESSURE:

INDETERMINATE

Star Hughes

DISTRIBUTION OF FINAL REPORTS

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

- (5) L.G. Stephenson & Co., Inc.
670 East Financial Center
7701 East Kellogg
Wichita, KS 67207

Phone
(303) 830-8080

Star Hughes

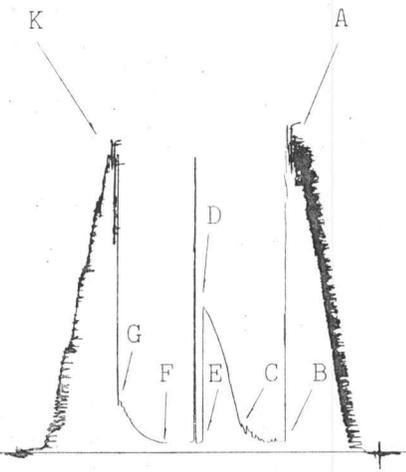
Denver Center Bldg.
1776 Lincoln St., Suite 401
Denver, CO 80203

| | | | | | |
|------------|-----------------|----------------|-----------------|-------------|-------------------|
| Contractor | Red Tiger Drlg. | Surface Choke | 1" | Mud Type | Starch/Salt/Gel |
| Rig No. | 4 | Bottom Choke | 5/8" | Weight | 10.1 |
| Spot | NW/SE/NE | Hole Size | 7 7/8" | Viscosity | 41 |
| Sec. | 13 | Core Hole Size | -- | Water Loss | 14.0 |
| Twp. | 19 S | DP Size & Wt. | 4 1/2" XH 16.60 | Filter Cake | 1/32 |
| Rng. | 13 W | Wt. Pipe | 4 1/2" XH 800' | Resistivity | -- @ -- of |
| Field | -- | I.D. of DC | -- | | 110,000 Ppm. NaCl |
| County | Barton | Length of DC | None | B.H.T. | 107 of |
| State | Kansas | Total Depth | 3393' | Co. Rep. | John M. Japp |
| Elevation | -- | Type Test | Conventional | Tester | John Riedl |
| Formation | Kansas City | Interval | 3323' - 3393' | | |

| | REPORTED | CORRECTED |
|---------------|------------|-----------|
| Opened Tool @ | 22:20 | |
| Flow No. 1 | 30 | 32 |
| Shut-in No. 1 | 30 | 28 |
| Flow No. 2 | 30 | 29 |
| Shut-in No. 2 | 30 | 32 |
| Flow No. 3 | None Taken | |
| Shut-in No. 3 | " | " |

| | |
|---------------|---------------|
| Recorder Type | Kuster AK-1 |
| No. 13212 | Cap. 4725 psi |
| Depth | 3388 feet |
| Inside X | Outside |

| | | |
|---------------------|---|------|
| Initial Hydrostatic | A | 1803 |
| Final Hydrostatic | K | 1787 |
| Initial Flow | B | 77 |
| Final Initial Flow | C | 182 |
| Initial Shut-in | D | 906 |
| Second Initial Flow | E | 81 |
| Second Final Flow | F | 69 |
| Second Shut-in | G | 332 |
| Third Initial Flow | H | |
| Third Final Flow | I | |
| Third Shut-in | J | |



Pipe Recovery: 30' Watery mud = 0.22 bbl.

Surface blow:
1st flow: Tool opened with a very weak blow, died in 12 minutes and remained through flow period.

2nd flow: Tool opened with no blow. Bypassed tool in 5 minutes (X on chart) reopened with a surge, died immediately and remained through flow period.

Remarks: The pressure charts indicate very slight plugging occurring during the initial flow period.

Operator: L.G. Stephenson & Co., Inc.
 Ticket No. 01599
 Date: 10/25/82
 Well Name & No. Button "A" #1
 Location: NW/SE/NE S-13
 County, State: Barton County, Kansas
 DST No. 3
 Interval: 3323' - 3393'
 Formation: Kansas City

Star Hughes

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

3
DST No.

Recorder Type Kuster AK-1
No. 1055 Cap. 4100 psi
Depth 3393 feet
Inside Outside x

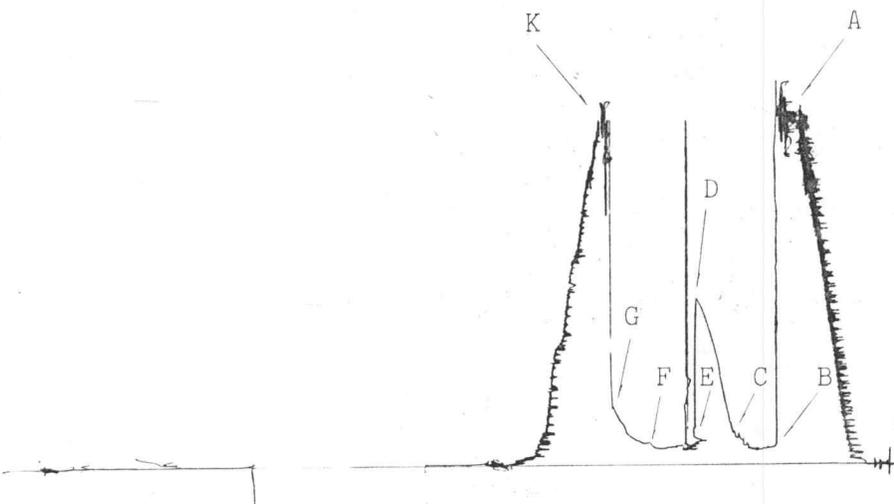
Initial Hydrostatic A 1816
Final Hydrostatic K 1794
Initial Flow B 103
Final Initial Flow C 176
Initial Shut-in D 901
Second Initial Flow E 85
Second Final Flow F 97
Second Shut-in G 321
Third Initial Flow H _____
Third Final Flow I _____
Third Shut-in J _____

Pressure Below Bottom
Packer Bled To

Recorder Type _____
No. _____ Cap. _____ psi
Depth _____ feet
Inside Outside

Initial Hydrostatic A _____
Final Hydrostatic K _____
Initial Flow B _____
Final Initial Flow C _____
Initial Shut-in D _____
Second Initial Flow E _____
Second Final Flow F _____
Second Shut-in G _____
Third Initial Flow H _____
Third Final Flow I _____
Third Shut-in J _____

Pressure Below Bottom
Packer Bled To



Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

3
DST No.

RECORDER NO. 13212 DEPTH 8388 FT.

INITIAL SHUT-IN
INITIAL FLOW TIME 32 MINUTES

| O (MIN) | LOG T + O/O | PRESSURE (PSIG) |
|---------|-------------|-----------------|
| 2 | 1.230 | 197 |
| 4 | 0.954 | 268 |
| 6 | 0.801 | 341 |
| 8 | 0.698 | 411 |
| 10 | 0.623 | 489 |
| 12 | 0.564 | 570 |
| 14 | 0.516 | 630 |
| 16 | 0.477 | 682 |
| 18 | 0.443 | 730 |
| 20 | 0.414 | 771 |
| 22 | 0.389 | 815 |
| 24 | 0.367 | 852 |
| 26 | 0.348 | 880 |
| 28 | 0.330 | 906 |

EXTRAPOLATED PRESSURE: INDETERMINATE

Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

3
DST No.

RECORDER NO. 13212 DEPTH 8388 FT.

FINAL SHUT-IN
TOTAL FLOW TIME 61 MINUTES

| O (MIN) | LOG T + O/O | PRESSURE (PSIG) |
|---------|-------------|-----------------|
| 2 | 1.498 | 70 |
| 4 | 1.210 | 74 |
| 6 | 1.047 | 81 |
| 8 | 0.935 | 86 |
| 10 | 0.851 | 92 |
| 12 | 0.784 | 101 |
| 14 | 0.728 | 111 |
| 16 | 0.682 | 124 |
| 18 | 0.642 | 140 |
| 20 | 0.607 | 157 |
| 22 | 0.576 | 180 |
| 24 | 0.549 | 209 |
| 26 | 0.524 | 237 |
| 28 | 0.502 | 264 |
| 30 | 0.481 | 296 |
| 32 | 0.463 | 332 |

EXTRAPOLATED PRESSURE:

INDETERMINATE

Star Hughes

DISTRIBUTION OF FINAL REPORTS

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

(5) L.G. Stephenson & Co., Inc.
670 East Financial Center
7701 East Kellogg
Wichita, KS 67207

Phone
(303) 830-8080

Star Hughes

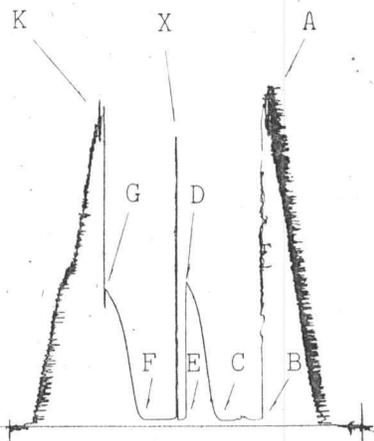
Denver Center Bldg.
1776 Lincoln St., Suite 401
Denver, CO 80203

| | | | | | |
|------------|-----------------|----------------|-----------------|-------------|-------------------|
| Contractor | Red Tiger Drlg. | Surface Choke | 1" | Mud Type | Starch/Salt/Gel |
| Rig No. | 4 | Bottom Choke | 5/8" | Weight | 10.1 |
| Spot | NW/SE/NE | Hole Size | 7 7/8" | Viscosity | 49 |
| Sec. | 13 | Core Hole Size | -- | Water Loss | 10.4 |
| Twp. | 19 S | DP Size & Wt. | 4 1/2" XH 16.60 | Filter Cake | 1/32 |
| Rng. | 13 W | Wt. Pipe | 4 1/2" XH 800' | Resistivity | -- @ -- OF |
| Field | -- | I.D. of DC | -- | | 113,000 Ppm. NaCl |
| County | Barton | Length of DC | None | B.H.T. | 107 OF |
| State | Kansas | Total Depth | 3473' | Co. Rep. | John M. Japp |
| Elevation | -- | Type Test | Conventional | Tester | John Riedl |
| Formation | Arbuckle | Interval | 3432'- 3473' | | |

| | REPORTED | CORRECTED | |
|---------------|------------|-----------|------|
| Opened Tool @ | 17:45 | | hrs. |
| Flow No. 1 | 30 | 32 | min. |
| Shut-in No. 1 | 30 | 26 | min. |
| Flow No. 2 | 30 | 32 | min. |
| Shut-in No. 2 | 30 | 30 | min. |
| Flow No. 3 | None Taken | | min. |
| Shut-in No. 3 | " | " | min. |

| | |
|---------------|---------------|
| Recorder Type | Kuster AK-1 |
| No. 13212 | Cap. 4725 psi |
| Depth | 3468 feet |
| Inside X | Outside |

| | | |
|---------------------|---|------|
| Initial Hydrostatic | A | 1953 |
| Final Hydrostatic | K | 1912 |
| Initial Flow | B | 53 |
| Final Initial Flow | C | 41 |
| Initial Shut-in | D | 894 |
| Second Initial Flow | E | 59 |
| Second Final Flow | F | 48 |
| Second Shut-in | G | 852 |
| Third Initial Flow | H | |
| Third Final Flow | I | |
| Third Shut-in | J | |



Pipe Recovery: 20' Oil cut mud = 0.15 bbl.
(15% oil, 85% mud)

Surface blow:
1st flow: Tool opened with a weak, 2" blow, decreased to a 1/4" blow at end of flow period.

2nd flow: Tool opened with no blow. Bypassed tool in 6 minutes (X on chart) reopened with a surge, died immediately and remained through flow period.

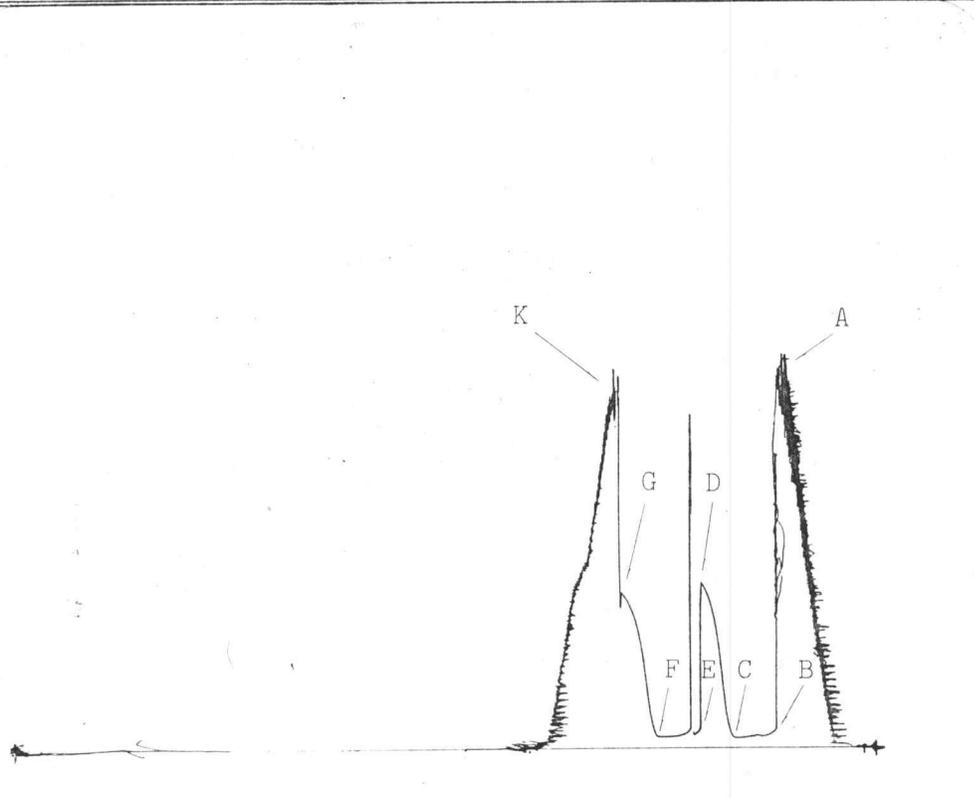
Operator: E.G. Stephenson & Co., Inc.
 Ticket No. 01600
 Date: 10/26/82
 Well Name & No. Button "A" #1
 Location: NW/SE/NE S-13
 County, State: Barton County, Kansas
 Interval: T-19S R-13W
 Formation: Arbuckle
 DST No.: 3432' - 3473'

Star Hughes

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

4
DST No.



Recorder Type Kuster AK-1
 No. 1055 Cap. 4100 psi
 Depth 3473 feet
 Inside Outside x

| | | |
|---------------------|---|-----------------|
| Initial Hydrostatic | A | <u>1944</u> |
| Final Hydrostatic | K | <u>1910</u> |
| Initial Flow | B | <u>89</u> |
| Final Initial Flow | C | <u>54</u> |
| Initial Shut-in | D | <u>892</u> |
| Second Initial Flow | E | <u>101</u> |
| Second Final Flow | F | <u>59</u> |
| Second Shut-in | G | <u>841</u> |
| Third Initial Flow | H | <u> </u> |
| Third Final Flow | I | <u> </u> |
| Third Shut-in | J | <u> </u> |

Pressure Below Bottom
Packer Bled To

Recorder Type _____
 No. _____ Cap. _____ psi
 Depth _____ feet
 Inside Outside

| | | |
|---------------------|---|-----------------|
| Initial Hydrostatic | A | <u> </u> |
| Final Hydrostatic | K | <u> </u> |
| Initial Flow | B | <u> </u> |
| Final Initial Flow | C | <u> </u> |
| Initial Shut-in | D | <u> </u> |
| Second Initial Flow | E | <u> </u> |
| Second Final Flow | F | <u> </u> |
| Second Shut-in | G | <u> </u> |
| Third Initial Flow | H | <u> </u> |
| Third Final Flow | I | <u> </u> |
| Third Shut-in | J | <u> </u> |

Pressure Below Bottom
Packer Bled To

Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

4
DST No.

RECORDER NO. 13212 DEPTH 3468 FT.

INITIAL SHUT-IN

INITIAL FLOW TIME 32 MINUTES

O (MIN) LOG T + O/O PRESSURE (PSIG)

| O (MIN) | LOG T + O/O | PRESSURE (PSIG) |
|---------|-------------|-----------------|
| 2 | 1.230 | 50 |
| 4 | 0.954 | 66 |
| 6 | 0.801 | 107 |
| 8 | 0.698 | 179 |
| 10 | 0.623 | 310 |
| 12 | 0.564 | 438 |
| 14 | 0.516 | 562 |
| 16 | 0.477 | 656 |
| 18 | 0.443 | 735 |
| 20 | 0.414 | 789 |
| 22 | 0.389 | 830 |
| 24 | 0.367 | 862 |
| 26 | 0.348 | 894 |

EXTRAPOLATED PRESSURE:

INDETERMINATE

Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

4

DST No.

RECORDER NO. 13212 DEPTH 3468 FT.

FINAL SHUT-IN
TOTAL FLOW TIME 64 MINUTES

| O (MIN) | LOG T + O/O | PRESSURE (PSIG) |
|---------|-------------|-----------------|
| 2 | 1.518 | 55 |
| 4 | 1.230 | 74 |
| 6 | 1.066 | 116 |
| 8 | 0.954 | 198 |
| 10 | 0.869 | 302 |
| 12 | 0.801 | 408 |
| 14 | 0.745 | 507 |
| 16 | 0.698 | 589 |
| 18 | 0.658 | 649 |
| 20 | 0.623 | 704 |
| 22 | 0.592 | 744 |
| 24 | 0.564 | 777 |
| 26 | 0.539 | 803 |
| 28 | 0.516 | 829 |
| 30 | 0.496 | 852 |

EXTRAPOLATED PRESSURE: INDETERMINATE

Star Hughes

DISTRIBUTION OF FINAL REPORTS

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

- (5) L.G. Stephenson & Co., Inc.
670 East Financial Center
7701 East Kellogg
Wichita, KS 67207

Phone
(303) 830-8080

Star Hughes

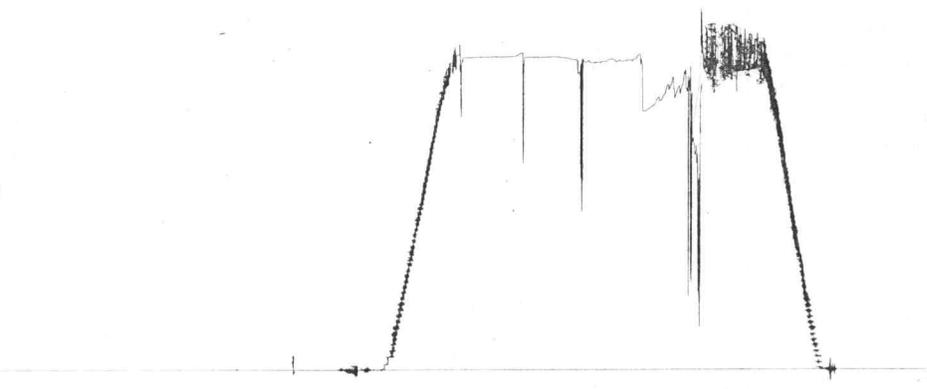
Denver Center Bldg.
1776 Lincoln St., Suite 401
Denver, CO 80203

| | | |
|-----------------------------------|--------------------------------------|--|
| Contractor <u>Red Tiger Drlg.</u> | Surface Choke <u>1"</u> | Mud Type <u>Starch/Salt/Gel</u> |
| Rig No. <u>4</u> | Bottom Choke <u>5/8"</u> | Weight <u>10.0</u> |
| Spot <u>NW/SE/NE</u> | Hole Size <u>7 7/8"</u> | Viscosity <u>49</u> |
| Sec. <u>13</u> | Core Hole Size <u>--</u> | Water Loss <u>10.0</u> |
| Twp. <u>19 S</u> | DP Size & Wt. <u>4 1/2" XH 16.60</u> | Filter Cake <u>1/32</u> |
| Rng. <u>13 W</u> | Wt. Pipe <u>4 1/2" XH 800'</u> | Resistivity <u>-- @ --</u> ^{OF} |
| Field <u>--</u> | I.D. of DC <u>--</u> | <u>113,000</u> Ppm. NaCl |
| County <u>Barton</u> | Length of DC <u>None</u> | B.H.T. <u>--</u> ^{OF} |
| State <u>Kansas</u> | Total Depth <u>3486'</u> | Co. Rep. <u>John M. Japp</u> |
| Elevation <u>--</u> | Type Test <u>Conventional</u> | Tester <u>John Riedl</u> |
| Formation <u>Arbuckle</u> | Interval <u>3470' - 3486'</u> | |

| | REPORTED | CORRECTED |
|---------------|-------------------|-----------|
| Opened Tool @ | <u>19:15</u> | hrs. |
| Flow No. 1 | <u>45</u> | min. |
| Shut-in No. 1 | <u>45</u> | min. |
| Flow No. 2 | <u>45</u> | min. |
| Shut-in No. 2 | <u>45</u> | min. |
| Flow No. 3 | <u>None Taken</u> | min. |
| Shut-in No. 3 | <u>" "</u> | min. |

| |
|---------------------------------------|
| Recorder Type <u>Kuster AK-1</u> |
| No. <u>13310</u> Cap. <u>4750</u> psi |
| Depth <u>3486</u> feet |
| Inside Outside <u>X</u> |

| | | |
|---------------------|---|-------|
| Initial Hydrostatic | A | _____ |
| Final Hydrostatic | K | _____ |
| Initial Flow | B | _____ |
| Final Initial Flow | C | _____ |
| Initial Shut-in | D | _____ |
| Second Initial Flow | E | _____ |
| Second Final Flow | F | _____ |
| Second Shut-in | G | _____ |
| Third Initial Flow | H | _____ |
| Third Final Flow | I | _____ |
| Third Shut-in | J | _____ |



Pipe Recovery: 140' Heavy drilling mud

Surface blow:
 1st flow: Tool opened with a fair blow, decreased and died at end of flow period.

2nd flow: Tool opened with a weak blow, died in 15 minutes and remained through flow period.

Remarks: Worked tool 15 feet to bottom then slid another 5 feet after the tool opened. The pressure charts indicate the tool was completely plugged. No usable data was obtained.

"MISRUN"

Operator
 Ticket No. 01701
 Date 10/27/82
 L.G. Stephenson & Co., Inc.
 Well Name & No. Barton "A" #1
 Location NW/SE/NE S-13
 County, State Barton County, Kansas
 Interval T-19S R-13W
 Formation Arbuckle
 DSI No. 3470' - 3486'

Star Hughes

DISTRIBUTION OF FINAL REPORTS

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

- (5) L.G. Stephenson & Co., Inc.
670 East Financial Center
7701 East Kellogg
Wichita, KS 67207

Phone
(303) 830-8080

Star Hughes

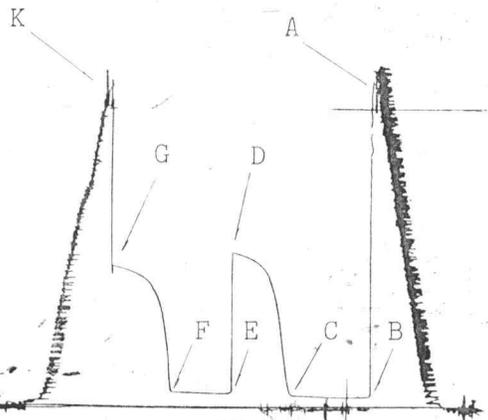
Denver Center Bldg.
1776 Lincoln St., Suite 401
Denver, CO 80203

| | | | | | |
|------------|-----------------|----------------|-----------------|-------------|-------------------|
| Contractor | Red Tiger Drlg. | Surface Choke | 1" | Mud Type | Starch/Salt/Gel |
| Rig No. | 4 | Bottom Choke | 5/8" | Weight | 10.0 |
| Spot | NW/SE/NE | Hole Size | 7 7/8" | Viscosity | 49 |
| Sec. | 13 | Core Hole Size | -- | Water Loss | 10.0 |
| Twp. | 19 S | DP Size & Wt. | 4 1/2" XH 16.60 | Filter Cake | 1/32 |
| Rng. | 13 W | Wt. Pipe | 4 1/2" XH 800' | Resistivity | -- @ -- °F |
| Field | -- | I.D. of DC | -- | | 113,000 Ppm. NaCl |
| County | Barton | Length of DC | None | B.H.T. | -- °F |
| State | Kansas | Total Depth | 3486' | Co. Rep. | John M. Japp |
| Elevation | -- | Type Test | Conventional | Tester | John Riedl |
| Formation | Arbuckle | Interval | 3417' - 3486' | | |

| | REPORTED | CORRECTED | |
|---------------|------------|-----------|------|
| Opened Tool @ | 17:15 | | hrs. |
| Flow No. 1 | 60 | 60 | min. |
| Shut-in No. 1 | 45 | 45 | min. |
| Flow No. 2 | 45 | 46 | min. |
| Shut-in No. 2 | 45 | 44 | min. |
| Flow No. 3 | None Taken | | min. |
| Shut-in No. 3 | " | " | min. |

| | | |
|---------------|-------------|----------|
| Recorder Type | Kuster AK-1 | |
| No. 13212 | Cap. | 4725 psi |
| Depth | 3481 feet | |
| | Inside X | Outside |

| | | |
|---------------------|---|------|
| Initial Hydrostatic | A | 1955 |
| Final Hydrostatic | K | 1937 |
| Initial Flow | B | 73 |
| Final Initial Flow | C | 76 |
| Initial Shut-in | D | 941 |
| Second Initial Flow | E | 92 |
| Second Final Flow | F | 97 |
| Second Shut-in | G | 860 |
| Third Initial Flow | H | |
| Third Final Flow | I | |
| Third Shut-in | J | |



Pipe Recovery: 100' Total fluid = 0.74 bbl.
 40' Mud cut oil = 0.30 bbl. (17% mud, 8% water, 75% oil)
 60' Oil & water cut mud = 0.44 bbl. (15% oil, 15% water, 70% mud)

Surface blow:
 1st flow: Tool opened with a weak blow, slowly increased to a 3" blow and remained through flow period.
 2nd flow: Tool opened with a very weak blow and remained through flow period.

Operator: L.G. Stephenson & Co., Inc.
 Ticket No. 01702
 Date: 10/27/82
 Well Name & No. NW/SE/NE S-13
 Location: Barton County, State Kansas
 Button "A" #1
 T-19S R-13W
 Formation: Arbuckle
 DST No. 6
 Interval 3417' - 3486'
 Formation Arbuckle

Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

6
DST No.

RECORDER NO. 13212 DEPTH 3481 FT.

INITIAL SHUT-IN
INITIAL FLOW TIME 60 MINUTES
O (MIN) LOG T + O/O PRESSURE (PSIG)

| | | |
|----|-------|-----|
| 3 | 1.322 | 121 |
| 6 | 1.041 | 284 |
| 9 | 0.884 | 505 |
| 12 | 0.778 | 654 |
| 15 | 0.698 | 744 |
| 18 | 0.636 | 808 |
| 21 | 0.586 | 841 |
| 24 | 0.544 | 867 |
| 27 | 0.508 | 885 |
| 30 | 0.477 | 899 |
| 33 | 0.449 | 910 |
| 36 | 0.425 | 920 |
| 39 | 0.404 | 928 |
| 42 | 0.385 | 935 |
| 45 | 0.367 | 941 |

EXTRAPOLATED PRESSURE: 1083.7 PSI
SLOPE: 3217 PSI/LOG CYCLE
POINTS USED 6

Star Hughes

INCREMENTAL READING DATA

L.G. Stephenson & Co., Inc.
Operator

Button "A" #1
Well Name and No.

6
DST No.

RECORDER NO. 13212 DEPTH 3481 FT.

FINAL SHUT-IN
TOTAL FLOW TIME 106 MINUTES

| O (MIN) | LOG T + O/O | PRESSURE (PSIG) |
|---------|-------------|-----------------|
| 3 | 1.560 | 363 |
| 6 | 1.271 | 542 |
| 9 | 1.106 | 647 |
| 12 | 0.992 | 703 |
| 15 | 0.906 | 745 |
| 18 | 0.838 | 775 |
| 21 | 0.781 | 793 |
| 24 | 0.733 | 808 |
| 27 | 0.692 | 819 |
| 30 | 0.656 | 829 |
| 33 | 0.624 | 838 |
| 36 | 0.595 | 844 |
| 39 | 0.570 | 850 |
| 42 | 0.547 | 856 |
| 44 | 0.532 | 860 |

EXTRAPOLATED PRESSURE: 993.9 PSI
SLOPE: 2096 PSI/LOG CYCLE
POINTS USED 7

Star Hughes

DISTRIBUTION OF FINAL REPORTS

L.G. Stephenson & Co., Inc.

Operator

Button "A" #1

Well Name and No.

- (5) L.G. Stephenson & Co., Inc.
670 East Financial Center
7701 East Kellogg
Wichita, KS 67207