

Denver Center Bldg.
1776 Lincoln St., Suite 408
Denver, CO 80203

DRILLSTEM TEST TECHNICAL SERVICE REPORT

Operator L.G. Stephenson & Co., Inc.
Ticket No. 3511

★ *Quality Drillstem Testing* ★



Well Name & No. Pickens #1
Date 6-9-84

1776 Lincoln St., Suite 408

Denver, CO 80203

(303) 830-8080

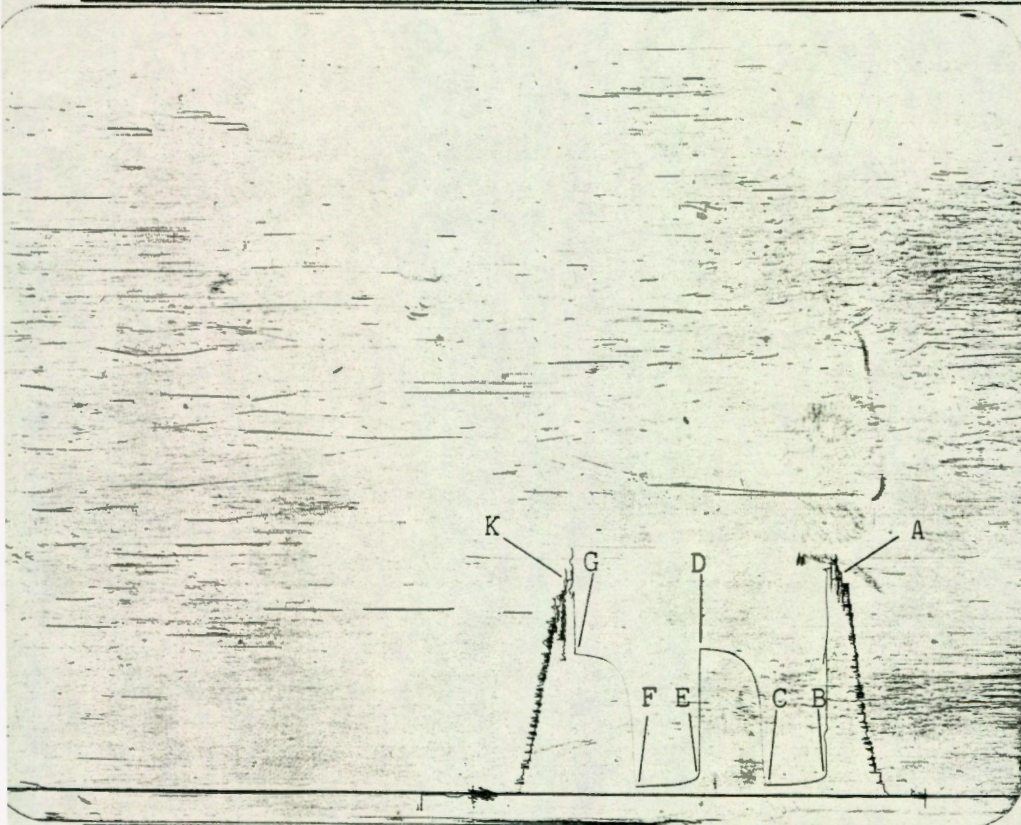
DST No. 1
Interval 1812-1845'

Phone
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Denver, CO 80203

Contractor <u>Woodman-Iannitti</u>	Surface Choke <u>1"</u>	Mud Type <u>Starch</u>
Rig No. <u>3</u>	Bottom Choke <u>9/16"</u>	Weight <u>9.9</u>
Spot <u>NE-NW-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>42</u>
Sec. <u>25</u>	Core Hole Size <u>--</u>	Water Loss <u>12.2</u>
Twp. <u>15S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>9W</u>	Wt. Pipe <u>4 1/2" XH 370'</u>	Resistivity <u>--</u> @ <u> </u> of
Field <u>--</u>	I.D. of DC <u>2.25"</u>	<u>80,000</u> Ppm. NaCl
County <u>Ellsworth</u>	Length of DC <u>186'</u>	B.H.T. <u>94</u> of
State <u>Kansas</u>	Total Depth <u>1845'</u>	Co. Rep. <u>John Japp</u>
Elevation <u>1560' KB</u>	Type Test <u>Conventional</u>	Tester <u>John Riedl</u>
Formation <u>Tarkio</u>	Interval <u>1812-1845'</u>	
On Location @ <u>9:30 am</u>	Off Location @ <u>4:30 pm</u>	



	REPORTED	CORRECTED
Opened Tool @	<u>11:15 am</u>	<u> </u> hrs.
Flow No. 1	<u>45</u>	<u> </u> min.
Shut-in No. 1	<u>45</u>	<u> </u> min.
Flow No. 2	<u>45</u>	<u> </u> min.
Shut-in No. 2	<u>45</u>	<u> </u> min.
Flow No. 3	<u> </u>	<u> </u> min.
Shut-in No. 3	<u> </u>	<u> </u> min.
Recorder Type	<u>Kuster AK-1</u>	
No. <u>13409</u>	Cap. <u>3525</u>	psi
Depth <u> </u>	<u>1840</u>	feet
	Inside *	Outside
Clock No. <u>25752</u>	Hr. <u>12</u>	
Initial Hydrostatic	A	<u>1004</u>
Final Hydrostatic	K	<u>966</u>
Initial Flow	B	<u>94</u>
Final Initial Flow	C	<u>48</u>
Initial Shut-in	D	<u>676</u>
Second Initial Flow	E	<u>91</u>
Second Final Flow	F	<u>39</u>
Second Shut-in	G	<u>647</u>
Third Initial Flow	H	<u>--</u>
Third Final Flow	I	<u>--</u>
Third Shut-in	J	<u>--</u>

Pipe Recovery: 30' Gas cut mud = .15 bbls.

Surface Blow:

- 1st flow: Tool opened with gas to surface in 23 minutes. Gauged on a 3/8" choke from 13.7 MCF/Day to 17.0 MCF/Day at end of flow period.
- 2nd flow: Tool opened with a gas blow of 20.8 MCF/Day, decreased to a 19.5 MCF/Day blow at end of flow period.

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DST No. 1
Interval 1812-1845'

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Ticket No.

L.G. Stephenson & Co., Inc.
3512

Well Name & No.
Date

Pickens #1
6-10-84

DST No.
Interval

2
2165-2206'

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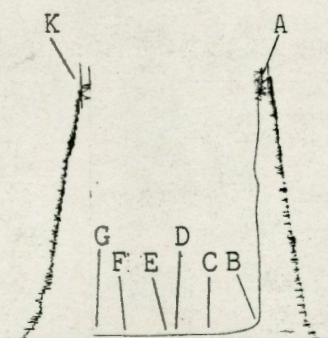
Contractor <u>Woodman Iannitti</u>	Surface Choke <u>1"</u>	Mud Type <u>Starch</u>
Rig No. <u>3</u>	Bottom Choke <u>9/16"</u>	Weight <u>9.9</u>
Spot <u>NE-NW-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>42</u>
Sec. <u>25</u>	Core Hole Size <u>--</u>	Water Loss <u>12.2</u>
Twp. <u>15S</u>	DP Size & Wt. <u>4 1/2 XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>9W</u>	Wt. Pipe <u>4 1/2 XH 370'</u>	Resistivity <u>--</u> @ <u>--</u> OF
Field <u>--</u>	I.D. of DC <u>XH 2.25"</u>	<u>80,000</u> Ppm. NaCl
County <u>Ellsworth</u>	Length of DC <u>124'</u>	B.H.T. <u>95</u> OF
State <u>Kansas</u>	Total Depth <u>2206</u>	Co. Rep. <u>John Japp</u>
Elevation <u>1560' KB</u>	Type Test <u>Conventional</u>	Tester <u>John Riedl</u>
Formation <u>Severy Sand</u>	Interval <u>2165-2206'</u>	
On Location @ <u>10:00AM 6-10-84</u>	Off Location @ <u>4:00 PM 6-10-84</u>	

	REPORTED	CORRECTED
Opened Tool @	<u>12:00</u> PM	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		min.
Shut-in No. 3		min.

Recorder Type <u>Kuster AK-1</u>
No. <u>13409</u> Cap. <u>3525</u> psi
Depth <u>2201</u> feet

Inside	X	Outside
Clock No. <u>25752</u>		Hr. <u>12</u>

Initial Hydrostatic	A	<u>1168</u>
Final Hydrostatic	K	<u>1127</u>
Initial Flow	B	<u>100</u>
Final Initial Flow	C	<u>36</u>
Initial Shut-in	D	<u>35</u>
Second Initial Flow	E	<u>34</u>
Second Final Flow	F	<u>30</u>
Second Shut-in	G	<u>31</u>
Third Initial Flow	H	<u>--</u>
Third Final Flow	I	<u>--</u>
Third Shut-in	J	<u>--</u>



Pipe Recovery: 10' Gas cut mud = .05 bbls
60' Gas in pipe above fluid.

Surface Blow:
1st Flow: Tool opened with a weak blow, increased to 2 1/2" blow, and decreased to a 1" blow at end of flow period.
2nd Flow: Tool opened with a 1/4" blow, and remained throughout the flow period.

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Well Name & No.
Date
Pickens #1
6-10-84

DST No. 2
Interval 2165-2206'

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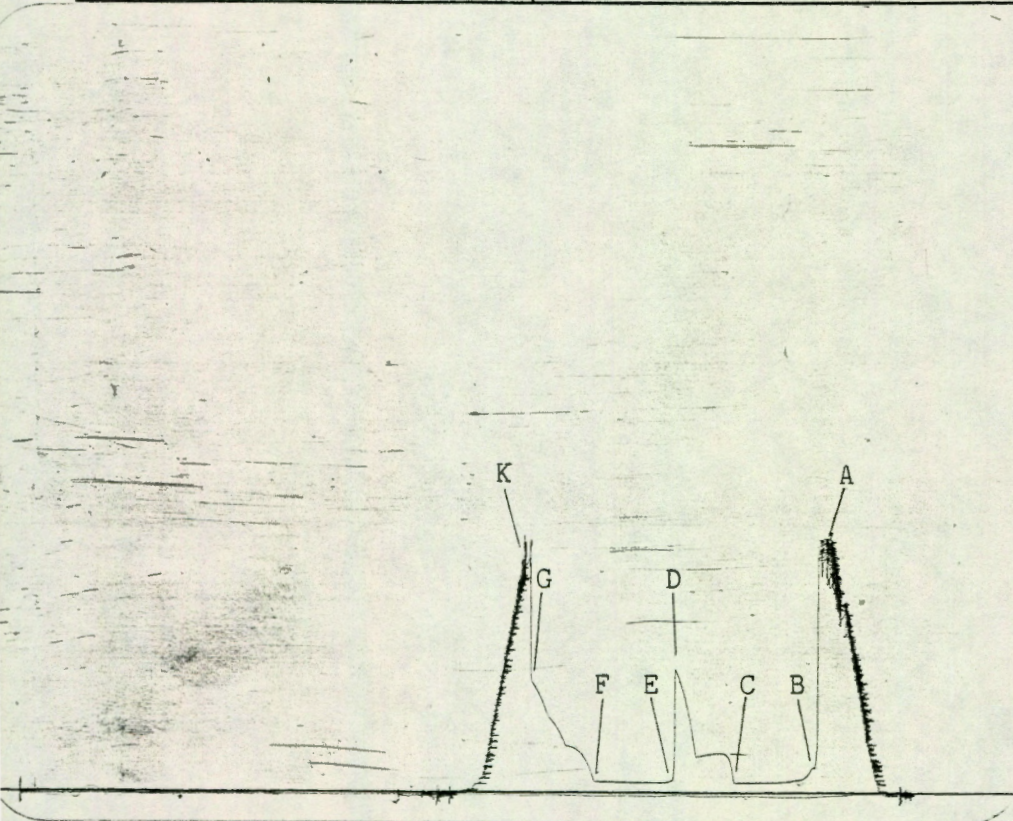
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Contractor <u>Woodman-Iannitti</u>	Surface Choke <u>1"</u>	Mud Type <u>Starch</u>
Rig No. <u>3</u>	Bottom Choke <u>9/16"</u>	Weight <u>9.8</u>
Spot <u>NE-NW-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>48</u>
Sec. <u>25</u>	Core Hole Size <u>--</u>	Water Loss <u>12.0</u>
Twp. <u>15S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>9W</u>	Wt. Pipe <u>4 1/2" XH 370'</u>	Resistivity <u>--</u> @ <u>--</u> of
Field <u>--</u>	I.D. of DC <u>--</u>	<u>50,000</u> Ppm. NaCl
County <u>Ellsworth</u>	Length of DC <u>--</u>	B.H.T. <u>100</u> of
State <u>Kansas</u>	Total Depth <u>2626'</u>	Co. Rep. <u>John Japp</u>
Elevation <u>1560' KB</u>	Type Test <u>Conventional</u>	Tester <u>John Riedl</u>
Formation <u>Kansas City</u>	Interval <u>2575-2626'</u>	
On Location @ <u>1:00PM 6-11-84</u>	Off Location @ <u>8:00PM 6-11-84</u>	

	REPORTED	CORRECTED
Opened Tool @	<u>2:45</u> PM	hrs.
Flow No. 1	<u>60</u>	min.
Shut-in No. 1	<u>45</u>	min.
Flow No. 2	<u>60</u>	min.
Shut-in No. 2	<u>45</u>	min.
Flow No. 3		min.
Shut-in No. 3		min.

Recorder Type <u>Kuster AK-1</u>
No. <u>13310</u> Cap. <u>4750</u> psi
Depth <u>2626</u> feet
Inside Outside X
Clock No. <u>25816</u> Hr. <u>12</u>

Initial Hydrostatic	A	<u>1416</u>
Final Hydrostatic	K	<u>1377</u>
Initial Flow	B	<u>160</u>
Final Initial Flow	C	<u>70</u>
Initial Shut-in	D	<u>748</u>
Second Initial Flow	E	<u>89</u>
Second Final Flow	F	<u>79</u>
Second Shut-in	G	<u>674</u>
Third Initial Flow	H	<u>--</u>
Third Final Flow	I	<u>--</u>
Third Shut-in	J	<u>--</u>



Pipe Recovery: 150' Gas cut mud = 1.11 bbls

Surface Blow:

- 1st Flow: Gas to surface in 7 minutes. See gas volume report.
- 2nd Flow: See gas volume report.

Remarks:

Pressure chart indicates that tool slid down hole very slightly during both shut-in periods. Therefore, the validity of the shut-in pressures are questionable.

Operator
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L.G. Stephenson & Co., Inc.
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Well Name & No.
Date
Pickens #1
6-11-84

DST No.
Interval
3
2575-2626'

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Operator
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L.G. Stephenson & Co., Inc.
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Well Name & No.
Date

Pickens #1
6-12-84

DST No. 4
Interval 2669-2725'

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Contractor <u>Woodman-Iannitti</u>	Surface Choke <u>1"</u>	Mud Type <u>Starch (Pro-chem)</u>
Rig No. <u>3</u>	Bottom Choke <u>9/16"</u>	Weight <u>9.9</u>
Spot <u>NE-NW-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>48</u>
Sec. <u>25</u>	Core Hole Size <u>--</u>	Water Loss <u>12.0</u>
Twp. <u>15S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>9W</u>	Wt. Pipe <u>4 1/2" XH 370'</u>	Resistivity <u>--</u> @ <u>--</u> OF
Field <u>--</u>	I.D. of DC <u>--</u>	<u>50,000</u> Ppm. NaCl
County <u>Ellsworth</u>	Length of DC <u>--</u>	B.H.T. <u>101</u> OF
State <u>Kansas</u>	Total Depth <u>2725</u>	Co. Rep. <u>John Japp</u>
Elevation <u>1560' KB</u>	Type Test <u>Conventional</u>	Tester <u>John Riedl</u>
Formation <u>Kansas City</u>	Interval <u>2669-2725'</u>	
On Location @ <u>5:30AM 6-12-84</u>	Off Location @ <u>2:00PM 6-12-84</u>	

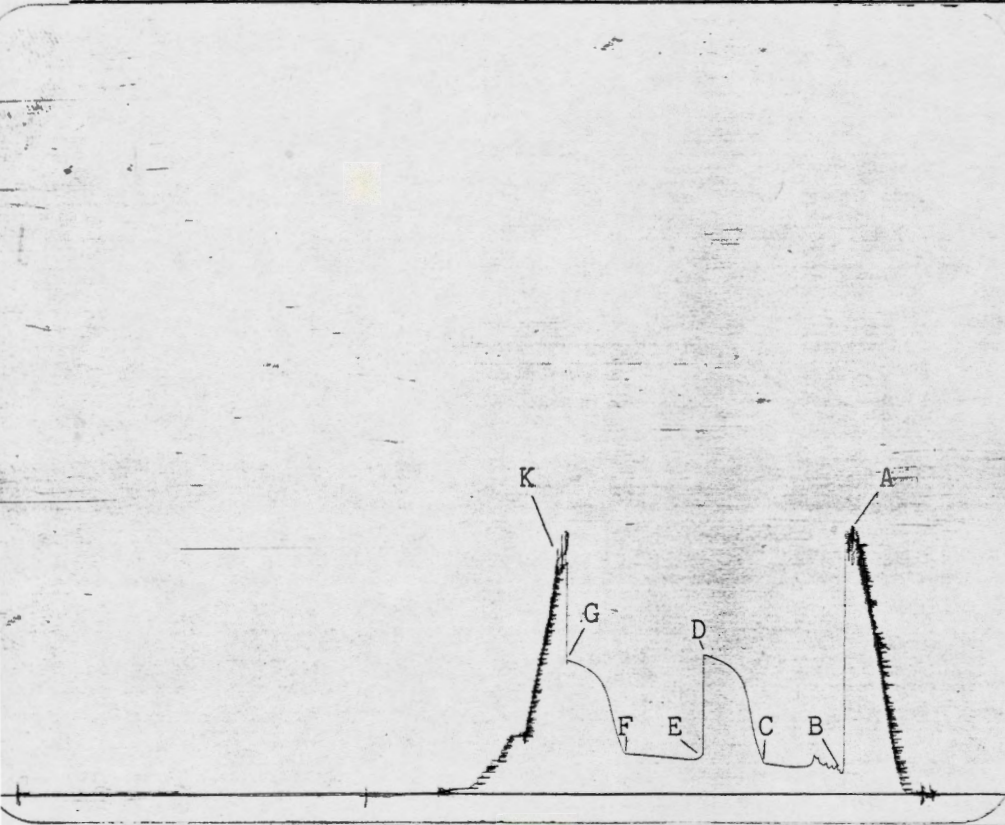
Operator
Ticket No. 3514
L.G. Stephenson & Co., Inc.

	REPORTED	CORRECTED
Opened Tool @	<u>7:25 AM</u>	hrs.
Flow No. 1	<u>60</u>	min.
Shut-in No. 1	<u>45</u>	min.
Flow No. 2	<u>60</u>	min.
Shut-in No. 2	<u>45</u>	min.
Flow No. 3		min.
Shut-in No. 3		min.

Recorder Type Kuster AK-1
No. 13310 Cap. 4750 psi
Depth 2725 feet
Inside Outside X

	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Clock No. <u>25752</u>			Hr. <u>12</u>					
Initial Hydrostatic	A	<u>1410</u>						
Final Hydrostatic	K	<u>1371</u>						
Initial Flow	B	<u>132</u>						
Final Initial Flow	C	<u>177</u>						
Initial Shut-in	D	<u>828</u>						
Second Initial Flow	E	<u>232</u>						
Second Final Flow	F	<u>238</u>						
Second Shut-in	G	<u>795</u>						
Third Initial Flow	H	<u>--</u>						
Third Final Flow	I	<u>--</u>						
Third Shut-in	J	<u>--</u>						

Well Name & No. Pickens #1
Date 6-12-84



Pipe Recovery: 650' Total fluid = 6.70 bbls.
400' Heavily gas and oil cut watery mud = 4.86 bbls.
Gas-50%, Oil-25%, Watery mud-25%
125' Heavily water and gas cut oil = 0.92 bbls.
Water-25%, Gas-15%, Oil-60%
125' Heavily gas and oil cut water = 0.92 bbls.
Gas-30%, Oil-30%, Water-40%

Surface Blow:

- 1st Flow: Tool opened with strong blow, and remained throughout flow period.
- 2nd Flow: Tool opened with strong blow, trace of gas to surface in 40 minutes, and remained throughout flow period.

Remarks: Chart indicates there was slight plugging of tool during first 20 minutes of the initial flow period.

DST No. 4
Interval 2669-2725'

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