

Company Mid Contient Energy Corporation Lease & Well No. Shaw #1
Elevation ----- Formation Topeka Effective Pay - Ft. Ticket No. 10504
Date 4/29/81 Sec. 13 Twp. 31S Range 13W County Barber State Kansas
Test Approved by Doug McGinness II Western Representative Les Holtz

Formation Test No. 1 Interval Tested from 3346 ft. to 3365 ft. Total Depth 3365 ft.

Packer Depth 3341 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3346 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3354 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 3357 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor H-30 Drlg. Rig #77 Drill Collar Length 236 I. D. 2.26 in.

Mud Type chemical Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 45.0 cc. Drill Pipe Length 3090 I. D. 3.8 in.

Chlorides 22,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number - Anchor Length 19 ft. Size 5 1/2 in.

Did Well Flow? --- Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout initial flow period. Strong blow throughout final flow period.

Recovered 30 ft. of very heavy oil and gas cut mud

Recovered 60 ft. of muddy gassy oil

Recovered 60 ft. of heavy oil and gas cut muddy water

Recovered 60 ft. of oil and gas cut muddy water

Recovered 60 ft. of slightly oil and gas cut muddy water 120' water

Remarks: Chlorides 114,000 ppm

Gas to surface immediately on final flow period. Too weak to gauge.

Opened valve and started to gauge at twenty-five minues on second opening.

See attached sheet for gas measurements.

Time Set Packer(s) 9:00 PM Time Started Off Bottom 12:00 PM Maximum Temperature ?

Initial Hydrostatic Pressure (A) 1706 P.S.I.

Initial Flow Period 30 Minutes (B) 133 P.S.I. to (C) 131 P.S.I.

Initial Closed In Period 30 Minutes (D) 653 P.S.I.

Final Flow Period 60 Minutes (E) 163 P.S.I. to (F) 174 P.S.I.

Final Closed In Period 57 Minutes (G) 840 P.S.I.

Final Hydrostatic Pressure (H) 1676 P.S.I.

GAS FLOW REPORT

Date 4/29/81 Ticket 10504 Company Mid Continent Energy Corporation
 Well Name and No. Shaw #1 Dst No. 1 Interval Tested 3346'-3365'
 County Barber State Kansas Sec. 13 Twp. 31S Rg. 13W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						

GAS TO SURFACE IMMEDIATELY			SECOND FLOW		
TOOL OPEN:					
25 min.	5 PSIG	1/4" orifice			20,700 CFPD
30 min.	4 PSIG	1/4" orifice			18,500 CFPD
35 min.	3 PSIG	1/4" orifice			15,700 CFPD
40 min.	2.5 PSIG	1/4" orifice			14,300 CFPD
45 min.	2 PSIG	1/4" orifice			12,700 CFPD
50 min.	1.5 PSIG	1/4" orifice			11,020 CFPD
60 min.	1 PSIG	1/4" orifice			8,950 CFPD

GAS BOTTLE

Serial No. WTC 107 Date Bottle Filled 4/29/81 Date to be Invoiced 4/29/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Mid Continent Energy Corporation

Authorized by Doug McGinness

WESTERN TESTING CO., INC.

Pressure Data

Date 4/29/81 Test Ticket No. 10504
 Recorder No. 1051 Capacity 4250 Location 3354 Ft.
 Clock No. - Elevation - Well Temperature - °F

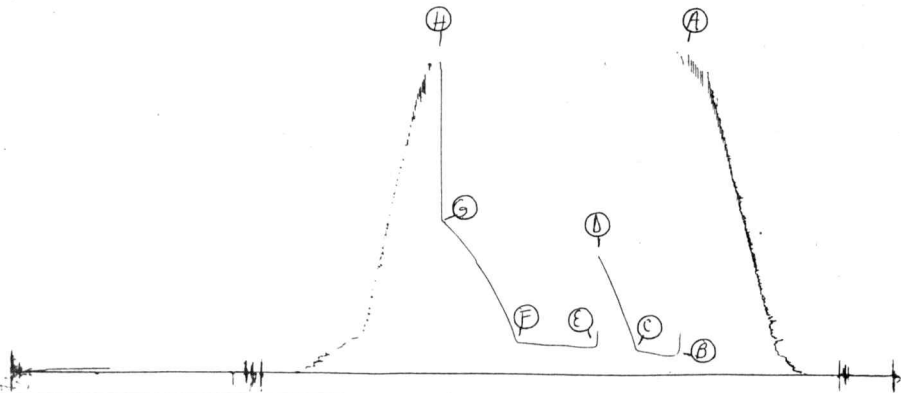
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1706</u> P.S.I.	Open Tool	<u>9:00P</u> M	
B First Initial Flow Pressure	<u>133</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>131</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>653</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>163</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>174</u> P.S.I.			
G Final Closed-in Pressure	<u>840</u> P.S.I.			
H Final Hydrostatic Mud	<u>1676</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>19</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>133</u>	<u>0</u>	<u>131</u>	<u>0</u>	<u>163</u>	<u>0</u>	<u>174</u>
P 2 <u>5</u>	<u>103</u>	<u>3</u>	<u>161</u>	<u>5</u>	<u>147</u>	<u>3</u>	<u>245</u>
P 3 <u>10</u>	<u>103</u>	<u>6</u>	<u>230</u>	<u>10</u>	<u>150</u>	<u>6</u>	<u>299</u>
P 4 <u>15</u>	<u>110</u>	<u>9</u>	<u>288</u>	<u>15</u>	<u>152</u>	<u>9</u>	<u>350</u>
P 5 <u>20</u>	<u>118</u>	<u>12</u>	<u>344</u>	<u>20</u>	<u>155</u>	<u>12</u>	<u>392</u>
P 6 <u>25</u>	<u>125</u>	<u>15</u>	<u>407</u>	<u>25</u>	<u>157</u>	<u>15</u>	<u>435</u>
P 7 <u>30</u>	<u>131</u>	<u>18</u>	<u>461</u>	<u>30</u>	<u>159</u>	<u>18</u>	<u>478</u>
P 8		<u>21</u>	<u>515</u>	<u>35</u>	<u>161</u>	<u>21</u>	<u>517</u>
P 9		<u>24</u>	<u>564</u>	<u>40</u>	<u>164</u>	<u>24</u>	<u>549</u>
P10		<u>27</u>	<u>608</u>	<u>45</u>	<u>166</u>	<u>27</u>	<u>581</u>
P11		<u>30</u>	<u>653</u>	<u>50</u>	<u>169</u>	<u>30</u>	<u>621</u>
P12				<u>55</u>	<u>171</u>	<u>33</u>	<u>655</u>
P13				<u>60</u>	<u>174</u>	<u>36</u>	<u>685</u>
P14						<u>39</u>	<u>715</u>
P15						<u>42</u>	<u>740</u>
P16						<u>45</u>	<u>764</u>
P17						<u>48</u>	<u>787</u>
P18						<u>51</u>	<u>808</u>
P19						<u>54</u>	<u>829</u>
P20						<u>57</u>	<u>840</u>

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DST #1



Company Mid Continent Energy Corporation Lease & Well No. Shaw #1
 Elevation - Formation Douglas Sand Effective Pay - Ft. Ticket No. 10505
 Date 5/1/81 Sec. 13 Twp. 31S Range 13W County Barber State Kansas
 Test Approved by Doug McGinness Western Representative Les Holtz
 Formation Test No. 2 Interval Tested from 3573 ft. to 3600 ft. Total Depth 3600 ft.
 Packer Depth 3568 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3573 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3581 ft. Recorder Number 1051 Cap. 4250
 Bottom Recorder Depth (Outside) 3584 ft. Recorder Number 13267 Cap. 4050
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor H-30 Rig #77 Drill Collar Length 236 I. D. 2.26 in.
 Mud Type Chemical Viscosity 36 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 52.0 cc. Drill Pipe Length 3317 I. D. 3.8 in.
 Chlorides 24,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 27 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughout test.

Recovered 120 ft. of gassy slightly water cut mud
 Recovered 240 ft. of gassy slightly mud cut oil stained water Chlorides 77,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Gas to surface in 40 minutes on final flow period. Too weak to guage

Read outside chart

Time Set	Packer(s)	<u>2:45</u>	~~P.M.~~ <u>A.M.</u>	Time Started Off Bottom	<u>5:45</u>	~~P.M.~~ <u>A.M.</u>	Maximum Temperature	<u>125</u>
Initial Hydrostatic Pressure			(A)	<u>1788</u>			P.S.I.	
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>130</u>	P.S.I. to (C)	<u>117</u>	P.S.I.	
Initial Closed In Period	Minutes	<u>30</u>	(D)	<u>1004</u>			P.S.I.	
Final Flow Period	Minutes	<u>60</u>	(E)	<u>158</u>	P.S.I. to (F)	<u>154</u>	P.S.I.	
Final Closed In Period	Minutes	<u>-</u>	(G)	<u>-</u>			P.S.I.	
Final Hydrostatic Pressure			(H)	<u>1757</u>			P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 5/1/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 10505
 Location 3584 Ft. Well Temperature 125 °F
 Clock No. - Elevation -

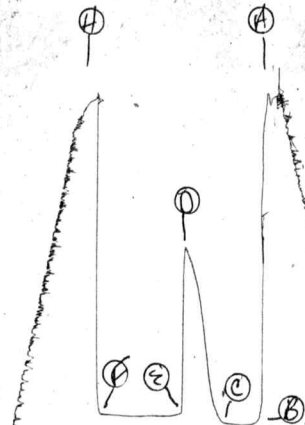
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1788</u> P.S.I.	Open Tool	<u>2:45A</u> M	
B First Initial Flow Pressure	<u>130</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>117</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1004</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>158</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>-</u> Mins.
F Second Final Flow Pressure	<u>154</u> P.S.I.			
G Final Closed-in Pressure	<u>-</u> P.S.I.			
H Final Hydrostatic Mud	<u>1757</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>0</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>130</u>	<u>0</u>	<u>117</u>	<u>0</u>	<u>158</u>		
P 2 <u>5</u>	<u>121</u>	<u>3</u>	<u>146</u>	<u>5</u>	<u>152</u>		
P 3 <u>10</u>	<u>107</u>	<u>6</u>	<u>194</u>	<u>10</u>	<u>148</u>		
P 4 <u>15</u>	<u>105</u>	<u>9</u>	<u>281</u>	<u>15</u>	<u>147</u>		
P 5 <u>20</u>	<u>107</u>	<u>12</u>	<u>441</u>	<u>20</u>	<u>147</u>		
P 6 <u>25</u>	<u>111</u>	<u>15</u>	<u>622</u>	<u>25</u>	<u>147</u>		
P 7 <u>30</u>	<u>117</u>	<u>18</u>	<u>766</u>	<u>30</u>	<u>145</u>		
P 8		<u>21</u>	<u>856</u>	<u>35</u>	<u>145</u>		
P 9		<u>24</u>	<u>931</u>	<u>40</u>	<u>145</u>		
P10		<u>27</u>	<u>984</u>	<u>45</u>	<u>147</u>		
P11		<u>30</u>	<u>1004</u>	<u>50</u>	<u>149</u>		
P12				<u>55</u>	<u>152</u>		
P13				<u>60</u>	<u>154</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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Company Mid Continent Energy Corporation Lease & Well No. Shaw #1
Elevation - Formation Lower Douglas Sand Effective Pay - Ft. Ticket No. 10506
Date 5/1/81 Sec. 13 Twp. 31S Range 13W County Barber State Kansas
Test Approved by Doug McGinness Western Representative Les Holtz

Formation Test No. 3 Interval Tested from 3650 ft. to 3670 ft. Total Depth 3670 ft.

Packer Depth 3645 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3650 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3659 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 3662 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor H-30 Rig #77

Drill Collar Length 236 I. D. 2.26 in.

Mud Type Chemical Viscosity 38

Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 36.0 cc.

Drill Pipe Length 3394 I. D. 3.8 in.

Chlorides 25,000 P.P.M.

Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number -

Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughout initial flow period. Weak to good throughtout final flow period

Recovered 120 ft. of slightly gassy oil specked mud

Recovered 60 ft. of slightly gassy oil specked water cut mud

Recovered 180 ft. of slightly gassy oil specked muddy water

Recovered 120 ft. of slightly gassy salt water Chlorides 72,000 PPM

Recovered 300 ft. of salt water

Remarks:

Slid 8 ft. to bottom.

Time Set Packer(s) 8:00 ~~A.M.~~ P.M. Time Started Off Bottom 11:00 ~~A.M.~~ P.M. Maximum Temperature 124

Initial Hydrostatic Pressure (A) 1814 P.S.I.

Initial Flow Period Minutes 30 (B) 131 P.S.I. to (C) 239 P.S.I.

Initial Closed In Period Minutes 39 (D) 1681 P.S.I.

Final Flow Period Minutes 55 (E) 308 P.S.I. to (F) 381 P.S.I.

Final Closed In Period Minutes 78 (G) 1574 P.S.I.

Final Hydrostatic Pressure (H) 1760 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/1/81

Test Ticket No. 10506

Recorder No. 1051

Capacity 4250

Location 3659 Ft.

Clock No. - Elevation -

Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1814</u>	P.S.I.	<u>8:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>131</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u>
C First Final Flow Pressure	<u>239</u>	P.S.I.	<u>30</u>	<u>Mins. 39</u>
D Initial Closed-in Pressure	<u>1681</u>	P.S.I.	<u>60</u>	<u>Mins. 55</u>
E Second Initial Flow Pressure	<u>308</u>	P.S.I.	<u>60</u>	<u>Mins. 78</u>
F Second Final Flow Pressure	<u>381</u>	P.S.I.		
G Final Closed-in Pressure	<u>1574</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1760</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>26</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>131</u>	<u>0</u>	<u>239</u>	<u>0</u>	<u>308</u>	<u>0</u>	<u>381</u>
P 2 <u>5</u>	<u>142</u>	<u>3</u>	<u>1222</u>	<u>5</u>	<u>310</u>	<u>3</u>	<u>1144</u>
P 3 <u>10</u>	<u>157</u>	<u>6</u>	<u>1502</u>	<u>10</u>	<u>312</u>	<u>6</u>	<u>1335</u>
P 4 <u>15</u>	<u>172</u>	<u>9</u>	<u>1589</u>	<u>15</u>	<u>319</u>	<u>9</u>	<u>1400</u>
P 5 <u>20</u>	<u>215</u>	<u>12</u>	<u>1630</u>	<u>20</u>	<u>329</u>	<u>12</u>	<u>1436</u>
P 6 <u>25</u>	<u>228</u>	<u>15</u>	<u>1647</u>	<u>25</u>	<u>340</u>	<u>15</u>	<u>1462</u>
P 7 <u>30</u>	<u>239</u>	<u>18</u>	<u>1658</u>	<u>30</u>	<u>341</u>	<u>18</u>	<u>1481</u>
P 8		<u>21</u>	<u>1670</u>	<u>35</u>	<u>347</u>	<u>21</u>	<u>1496</u>
P 9		<u>24</u>	<u>1677</u>	<u>40</u>	<u>353</u>	<u>24</u>	<u>1506</u>
P10		<u>27</u>	<u>1679</u>	<u>45</u>	<u>364</u>	<u>27</u>	<u>1517</u>
P11		<u>30</u>	<u>1679</u>	<u>50</u>	<u>375</u>	<u>30</u>	<u>1523</u>
P12		<u>33</u>	<u>1680</u>	<u>55</u>	<u>381</u>	<u>33</u>	<u>1530</u>
P13		<u>36</u>	<u>1680</u>			<u>36</u>	<u>1534</u>
P14		<u>39</u>	<u>1681</u>			<u>39</u>	<u>1536</u>
P15						<u>42</u>	<u>1539</u>
P16						<u>45</u>	<u>1543</u>
P17						<u>48</u>	<u>1547</u>
P18						<u>51</u>	<u>1552</u>
P19						<u>54</u>	<u>1558</u>
P20						<u>57</u>	<u>1563</u>
						<u>60</u>	<u>1564</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5/1/81

Test Ticket No. 10506

Recorder No. 1051

Capacity 4250

Location 3659 Ft.

Clock No. - Elevation -

Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1814</u>	P.S.I.	<u>8:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>131</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>239</u>	P.S.I.	<u>30</u>	<u>39</u> Mins.
D Initial Closed-in Pressure	<u>1681</u>	P.S.I.	<u>60</u>	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>308</u>	P.S.I.	<u>60</u>	<u>78</u> Mins.
F Second Final Flow Pressure	<u>381</u>	P.S.I.		
G Final Closed-in Pressure	<u>1574</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1760</u>	P.S.I.		

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

PRESSURE BREAKDOWN

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

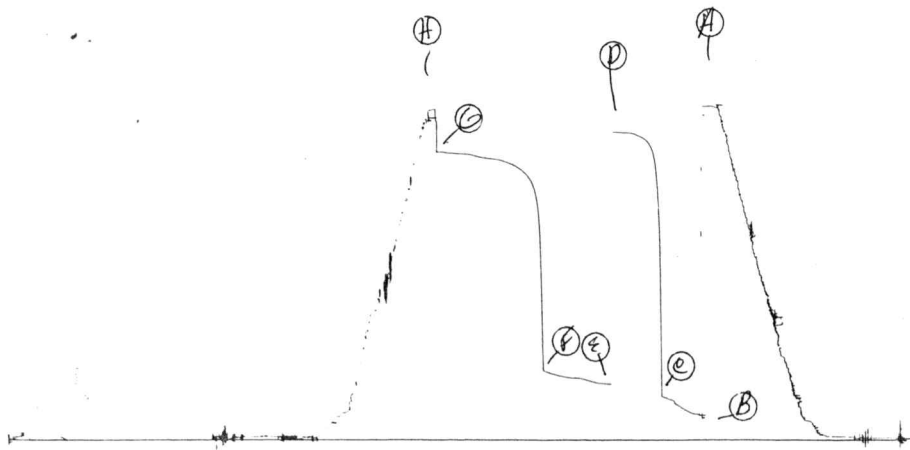
Initial Shut-In
Breakdown: 13 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 26 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1565
P 2						66	1566
P 3						69	1567
P 4						72	1568
P 5						75	1574
P 6						78	1574
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

JK #10506
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Company Mid Continent Energy Corporation Lease & Well No. Shaw #1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 10507
 Date 5/3/81 Sec. 13 Twp. 31S Range 13W County Barber State Kansas
 Test Approved by Doug McGinness Western Representative Les Holtz
 Formation Test No. 4 Interval Tested from 4195 ft. to 4208 ft. Total Depth 4208 ft.
 Packer Depth 4190 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4195 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4201 ft. Recorder Number 1051 Cap. 4250
 Bottom Recorder Depth (Outside) 4204 ft. Recorder Number 13267 Cap. 4050
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor H-30 Rig #77 Drill Collar Length 236 I. D. 2.26 in.
 Mud Type Chemical Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 12.4 cc. Drill Pipe Length 3939 I. D. 3.8 in.
 Chlorides 25,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 13 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong throughout test. Gas to surface in 30 minutes on initial flow period. See attached sheet for gas measurements.

Recovered 10 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set	Packer(s)	<u>8:00</u>	~~A.M.~~ P.M.	Time Started Off Bottom	<u>11:00</u>	~~A.M.~~ P.M.	Maximum Temperature	<u>123</u>
Initial Hydrostatic Pressure				(A)	<u>2043</u>		P.S.I.	
Initial Flow Period	Minutes	<u>30</u>		(B)	<u>56</u>		P.S.I. to (C)	<u>51</u> P.S.I.
Initial Closed In Period	Minutes	<u>30</u>		(D)	<u>1430</u>		P.S.I.	
Final Flow Period	Minutes	<u>60</u>		(E)	<u>58</u>		P.S.I. to (F)	<u>39</u> P.S.I.
Final Closed In Period	Minutes	<u>66</u>		(G)	<u>1393*</u>		P.S.I.	
Final Hydrostatic Pressure				(H)	<u>2017</u>		P.S.I.	

GAS FLOW REPORT

Date 5/3/81 Ticket 10507 Company Mid Continent Energy Corporation
 Well Name and No. Shaw #1 Dst No. 4 Interval Tested 4195-4208
 County Barber State Kansas Sec. 13 Twp. 31S Rg. 13W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface 30 minutes. PRE FLOW						

SECOND FLOW

15 Min	20 PSIG	1/4" Orifice			47,100 C.F.P.D.
30 Min	20 PSIG	1/4" Orifice			47,100 C.F.P.D.
45 Min	20 PSIG	1/4" Orifice			47,100 C.F.P.D.
60 Min	20 PSIG	1/4" Orifice			47,100 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 5/3/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Mid Continent Energy Corporation

Authorized by Doug McGinness

WESTERN TESTING CO., INC.

Pressure Data

Date 5/3/81 Recorder No. 1051 Capacity 4250 Test Ticket No. 10507
 Location 4201 Ft. 123 °F
 Clock No. - Elevation - Well Temperature 123 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2043</u>	P.S.I.	8:00P	M
B First Initial Flow Pressure <u>56</u>	P.S.I.	30	Mins. 30
C First Final Flow Pressure <u>51</u>	P.S.I.	30	Mins. 30
D Initial Closed-in Pressure <u>1430</u>	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure <u>58</u>	P.S.I.	60	Mins. 66
F Second Final Flow Pressure <u>39</u>	P.S.I.		
G Final Closed-in Pressure <u>1393*</u>	P.S.I.		
H Final Hydrostatic Mud <u>2017</u>	P.S.I.		

*Pressures questionable due to tool movement.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>22</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>56</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>39</u>
P 2 <u>5</u>	<u>48</u>	<u>3</u>	<u>725</u>	<u>5</u>	<u>41</u>	<u>3</u>	<u>517</u>
P 3 <u>10</u>	<u>47</u>	<u>6</u>	<u>1091</u>	<u>10</u>	<u>39</u>	<u>6</u>	<u>766</u>
P 4 <u>15</u>	<u>45</u>	<u>9</u>	<u>1222</u>	<u>15</u>	<u>39</u>	<u>9</u>	<u>906</u>
P 5 <u>20</u>	<u>45</u>	<u>12</u>	<u>1301</u>	<u>20</u>	<u>39</u>	<u>12</u>	<u>991</u>
P 6 <u>25</u>	<u>48</u>	<u>15</u>	<u>1345</u>	<u>25</u>	<u>39</u>	<u>15</u>	<u>1051</u>
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>1373</u>	<u>30</u>	<u>39</u>	<u>18</u>	<u>1089</u>
P 8		<u>21</u>	<u>1396</u>	<u>35</u>	<u>39</u>	<u>21</u>	<u>1121</u>
P 9		<u>24</u>	<u>1415</u>	<u>40</u>	<u>39</u>	<u>24</u>	<u>1142</u>
P10		<u>27</u>	<u>1424</u>	<u>45</u>	<u>39</u>	<u>27</u>	<u>1161</u>
P11		<u>30</u>	<u>1430</u>	<u>50</u>	<u>39</u>	<u>30</u>	<u>1176</u>
P12				<u>55</u>	<u>39</u>	<u>33</u>	<u>1186</u>
P13				<u>60</u>	<u>39</u>	<u>36</u>	<u>1326*</u>
P14						<u>39</u>	<u>1402*</u>
P15						<u>42</u>	<u>1402*</u>
P16						<u>45</u>	<u>1398*</u>
P17						<u>48</u>	<u>1396*</u>
P18						<u>51</u>	<u>1393*</u>
P19						<u>54</u>	<u>1393*</u>
P20						<u>57</u>	<u>1393*</u>
						<u>60</u>	<u>1393*</u>
						<u>63</u>	<u>1393*</u>
						<u>66</u>	<u>1393*</u>

TKT # 10507
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DST#4

