

Company Kansas Oil Corporation Lease & Well No. Stewart "A" #1
 Elevation 1619 Derrick Floor Formation Hertha Effective Pay - Ft. Ticket No. 10586
 Date 4/12/81 Sec. 18 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Robert Llaymon Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4427 ft. to 4450 ft. Total Depth 4450 ft.
 Packer Depth 4422 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4427 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4440 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4443 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Rig #1 Drill Collar Length 180 I. D. 2 1/4 in.
 Mud Type Premix Viscosity 70 Weight Pipe Length - I. D. - in.
 Weight 9.0 Water Loss 12.8 cc. Drill Pipe Length 4226 I. D. 3.8 in.
 Chlorides 9,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 23 ft. Size 5 1/2 OD in.
 Did Well Flow? Yes 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 blow throughout test. Gas to surface in 18 minutes on preflow. See attached sheet for gas measurements.

Recovered 90 ft. of gas cut mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: Tight hole

Time Set Packer(s) 11:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 3:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 120
 Initial Hydrostatic Pressure (A) 2217 P.S.I.
 Initial Flow Period Minutes 30 (B) 63 P.S.I. to (C) 37 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1667 P.S.I.
 Final Flow Period Minutes 45 (E) 65 P.S.I. to (F) 49 P.S.I.
 Final Closed In Period Minutes 90 (G) 1653 P.S.I.
 Final Hydrostatic Pressure (H) 2194 P.S.I.

GAS FLOW REPORT

Date 4/12/81 Ticket 10586 Company Kansas Oil Corporation
 Well Name and No. Stewart "A" #1 Dst No. 1 Interval Tested 4427-4450
 County Barber State Kansas Sec. 18 Twp. 33S Rg. 10W

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						
	20 Min	4" water	1" Orifice			51,600 C.F.P.D.
	25 Min	4" water	1" Orifice			51,600 C.F.P.D.
	30 Min	4" water	1" Orifice			51,600 C.F.P.D.

SECOND FLOW						
	5 Min	9" water	1" Orifice			77,500 C.F.P.D.
	15 Min	5" water	1" Orifice			57,700 C.F.P.D.
	25 Min	5" water	1" Orifice			57,700 C.F.P.D.
	35 Min	5" water	1" Orifice			57,700 C.F.P.D.
	45 Min	5" water	1" Orifice			57,700 C.F.P.D.

GAS BOTTLE

Serial No. 618 Date Bottle Filled 4/12/81 Date to be Invoiced 4/12/81

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 Kansas Oil Corporation
 Authorized by Robert Llaymon

WESTERN TESTING CO., INC.

Pressure Data

Date 4/12/81 Test Ticket No. 10586
 Recorder No. 2607 Capacity 4150 Location 4440 Ft.
 Clock No. - Elevation 1619 Derrick Floor Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2217</u>	P.S.I.	<u>11:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>63</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>37</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1667</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>65</u>	P.S.I.	<u>90</u>	<u>90</u> Mins.
F Second Final Flow Pressure	<u>49</u>	P.S.I.		
G Final Closed-in Pressure	<u>1653</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2194</u>	P.S.I.		

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 30 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 <u>0</u>	<u>63</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>49</u>
P 2 <u>5</u>	<u>44</u>	<u>3</u>	<u>806</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>548</u>
P 3 <u>10</u>	<u>40</u>	<u>6</u>	<u>1324</u>	<u>10</u>	<u>49</u>	<u>6</u>	<u>1259</u>
P 4 <u>15</u>	<u>38</u>	<u>9</u>	<u>1498</u>	<u>15</u>	<u>49</u>	<u>9</u>	<u>1483</u>
P 5 <u>20</u>	<u>37</u>	<u>12</u>	<u>1584</u>	<u>20</u>	<u>49</u>	<u>12</u>	<u>1563</u>
P 6 <u>25</u>	<u>37</u>	<u>15</u>	<u>1613</u>	<u>25</u>	<u>49</u>	<u>15</u>	<u>1597</u>
P 7 <u>30</u>	<u>37</u>	<u>18</u>	<u>1632</u>	<u>30</u>	<u>49</u>	<u>18</u>	<u>1611</u>
P 8		<u>21</u>	<u>1643</u>	<u>35</u>	<u>49</u>	<u>21</u>	<u>1624</u>
P 9		<u>24</u>	<u>1649</u>	<u>40</u>	<u>49</u>	<u>24</u>	<u>1628</u>
P10		<u>27</u>	<u>1653</u>	<u>45</u>	<u>49</u>	<u>27</u>	<u>1632</u>
P11		<u>30</u>	<u>1658</u>			<u>30</u>	<u>1637</u>
P12		<u>33</u>	<u>1660</u>			<u>33</u>	<u>1639</u>
P13		<u>36</u>	<u>1663</u>			<u>36</u>	<u>1641</u>
P14		<u>39</u>	<u>1663</u>			<u>39</u>	<u>1643</u>
P15		<u>42</u>	<u>1664</u>			<u>42</u>	<u>1643</u>
P16		<u>45</u>	<u>1664</u>			<u>45</u>	<u>1645</u>
P17		<u>48</u>	<u>1664</u>			<u>48</u>	<u>1647</u>
P18		<u>51</u>	<u>1664</u>			<u>51</u>	<u>1648</u>
P19		<u>54</u>	<u>1666</u>			<u>54</u>	<u>1649</u>
P20		<u>57</u>	<u>1667</u>			<u>57</u>	<u>1650</u>
WTC - 4		<u>60</u>	<u>1667</u>			<u>60</u>	<u>1651</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 4/12/81 Test Ticket No. 10586
 Recorder No. 2607 Capacity 4150 Location 4440 Ft.
 Clock No. - Elevation 1619 Derrick Floor Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2217</u> P.S.I.	Open Tool	<u>11:30A</u> M	
B First Initial Flow Pressure	<u>63</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>37</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1667</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>65</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>49</u> P.S.I.			
G Final Closed-in Pressure	<u>1653</u> P.S.I.			
H Final Hydrostatic Mud	<u>2194</u> P.S.I.			

PRESSURE BREAKDOWN

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

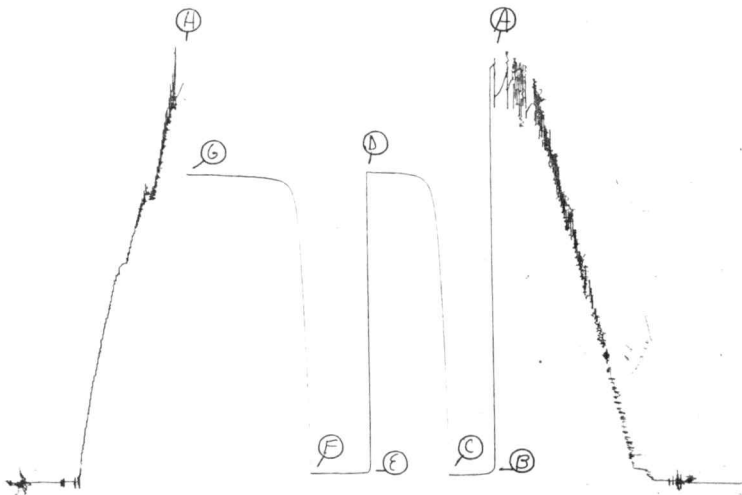
Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 30 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						<u>63</u>	<u>1652</u>
P 2						<u>66</u>	<u>1652</u>
P 3						<u>69</u>	<u>1653</u>
P 4						<u>72</u>	<u>1653</u>
P 5						<u>75</u>	<u>1653</u>
P 6						<u>78</u>	<u>1653</u>
P 7						<u>81</u>	<u>1653</u>
P 8						<u>84</u>	<u>1653</u>
P 9						<u>87</u>	<u>1653</u>
P10						<u>90</u>	<u>1653</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 10586
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Company Kansas Oil Corporation Lease & Well No. Stewart "A" #1
 Elevation 1619 Derrick Floor Formation Pawnee Effective Pay - Ft. Ticket No. 10587
 Date 4/13/81 Sec. 18 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Robert Llaymon Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4550 ft. to 4580 ft. Total Depth 4580 ft.
 Packer Depth 4545 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4550 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4570 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4573 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Rig #1 Drill Collar Length 180 I. D. 2 1/4 in.
 Mud Type Premix Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 8.9 Water Loss 14.6 cc. Drill Pipe Length 4349 I. D. 3.8 in.
 Chlorides 19,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 30 ft. Size 5 1/2 OD 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: Weak blow throughout initial flow period. Strong blow throughout final flow period.

Recovered 10 ft. of drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: Tight hole

Time Set Packer(s) 5:30 ~~A.M.~~ P.M. Time Started Off Bottom 8:30 ~~A.M.~~ P.M. Maximum Temperature 120
 Initial Hydrostatic Pressure (A) 2291 P.S.I.
 Initial Flow Period Minutes 30 (B) 82 P.S.I. to (C) 46 P.S.I.
 Initial Closed In Period Minutes 60 (D) 303 P.S.I.
 Final Flow Period Minutes 30 (E) 80 P.S.I. to (F) 50 P.S.I.
 Final Closed In Period Minutes 60 (G) 260 P.S.I.
 Final Hydrostatic Pressure (H) 2249 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 4/13/81

Test Ticket No. 10587

Recorder No. 2607

Capacity 4150

Location 4570 Ft.

Clock No. -

Elevation 1619 Derrick Floor

Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2291</u> P.S.I.	Open Tool	<u>5:30P</u> M	
B First Initial Flow Pressure	<u>82</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>46</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>303</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>80</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>50</u> P.S.I.			
G Final Closed-in Pressure	<u>260</u> P.S.I.			
H Final Hydrostatic Mud	<u>2249</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

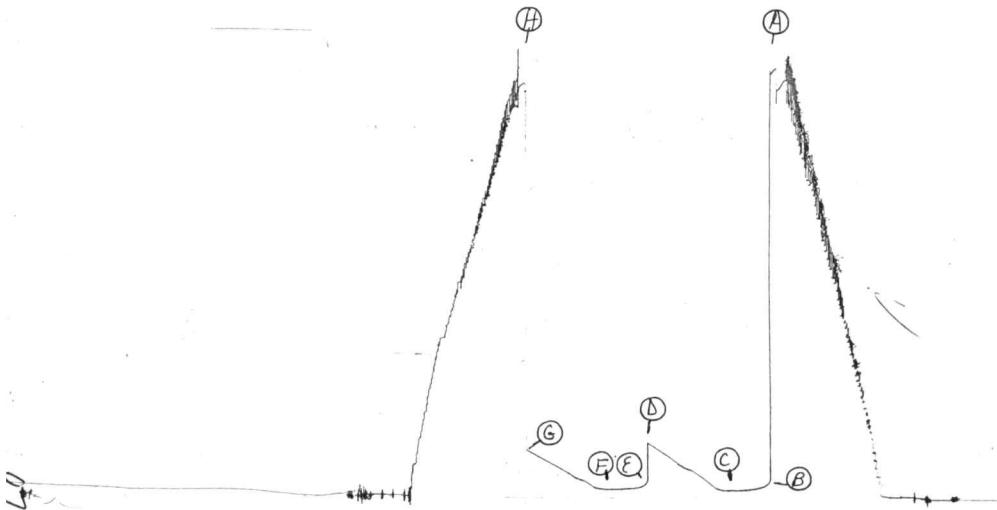
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 20 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 <u>0</u>	<u>82</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>80</u>	<u>0</u>	<u>50</u>
P 2 <u>5</u>	<u>65</u>	<u>3</u>	<u>46</u>	<u>5</u>	<u>63</u>	<u>3</u>	<u>50</u>
P 3 <u>10</u>	<u>57</u>	<u>6</u>	<u>50</u>	<u>10</u>	<u>57</u>	<u>6</u>	<u>55</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>55</u>	<u>15</u>	<u>54</u>	<u>9</u>	<u>63</u>
P 5 <u>20</u>	<u>48</u>	<u>12</u>	<u>70</u>	<u>20</u>	<u>51</u>	<u>12</u>	<u>76</u>
P 6 <u>25</u>	<u>46</u>	<u>15</u>	<u>87</u>	<u>25</u>	<u>50</u>	<u>15</u>	<u>89</u>
P 7 <u>30</u>	<u>46</u>	<u>18</u>	<u>104</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>99</u>
P 8		<u>21</u>	<u>121</u>			<u>21</u>	<u>106</u>
P 9		<u>24</u>	<u>137</u>			<u>24</u>	<u>116</u>
P10		<u>27</u>	<u>152</u>			<u>27</u>	<u>131</u>
P11		<u>30</u>	<u>161</u>			<u>30</u>	<u>142</u>
P12		<u>33</u>	<u>169</u>			<u>33</u>	<u>157</u>
P13		<u>36</u>	<u>182</u>			<u>36</u>	<u>169</u>
P14		<u>39</u>	<u>199</u>			<u>39</u>	<u>182</u>
P15		<u>42</u>	<u>216</u>			<u>42</u>	<u>195</u>
P16		<u>45</u>	<u>233</u>			<u>45</u>	<u>207</u>
P17		<u>48</u>	<u>248</u>			<u>48</u>	<u>218</u>
P18		<u>51</u>	<u>263</u>			<u>51</u>	<u>231</u>
P19		<u>54</u>	<u>277</u>			<u>54</u>	<u>242</u>
P20		<u>57</u>	<u>290</u>			<u>57</u>	<u>254</u>
WTC - 4		<u>60</u>	<u>303</u>			<u>60</u>	<u>260</u>

TKT # 10587

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Company Kansas Oil Corporation Lease & Well No. Stewart "A" #1
 Elevation 1619 Derrick Floor Formation Mississippi Effective Pay - Ft. Ticket No. 10588
 Date 4/14/81 Sec. 18 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Robert Llaymon Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4647 ft. to 4660 ft. Total Depth 4660 ft.
 Packer Depth 4642 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4647 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4650 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4653 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Rig #1 Drill Collar Length 180 I. D. 2 1/4 in.
 Mud Type Premix Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 15.8 cc. Drill Pipe Length 4446 I. D. 3.8 in.
 Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 13 ft. Size 5 1/2 OD 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 blow throughout flow periods.

Recovered 30 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Tight Hole.

Time Set Packer(s) 5:40 ~~A.M.~~ P.M. Time Started Off Bottom 8:40 ~~A.M.~~ P.M. Maximum Temperature 121
 Initial Hydrostatic Pressure (A) 2278 P.S.I.
 Initial Flow Period Minutes 30 (B) 65 P.S.I. to (C) 42 P.S.I.
 Initial Closed In Period Minutes 57 (D) 1027 P.S.I.
 Final Flow Period Minutes 35 (E) 63 P.S.I. to (F) 43 P.S.I.
 Final Closed In Period Minutes 57 (G) 1046 P.S.I.
 Final Hydrostatic Pressure (H) 2278 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

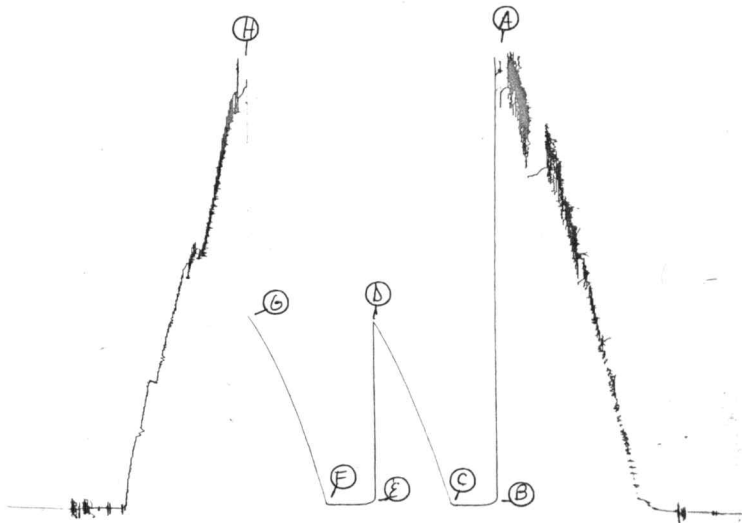
Date 4/14/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 10588
 Location 4650 Ft. Elevation 1619 Derrick Floor Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2278</u>	P.S.I.	<u>5:40P</u>	<u>M</u>
B First Initial Flow Pressure	<u>65</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>42</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>1027</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>63</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>43</u>	P.S.I.		
G Final Closed-in Pressure	<u>1046</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2278</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	<u>6</u>		<u>19</u>		<u>7</u>		<u>19</u>	
	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>65</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>43</u>	
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>51</u>	<u>3</u>	<u>99</u>	
P 3 <u>10</u>	<u>44</u>	<u>6</u>	<u>140</u>	<u>10</u>	<u>44</u>	<u>6</u>	<u>176</u>	
P 4 <u>15</u>	<u>42</u>	<u>9</u>	<u>207</u>	<u>15</u>	<u>43</u>	<u>9</u>	<u>243</u>	
P 5 <u>20</u>	<u>42</u>	<u>12</u>	<u>273</u>	<u>20</u>	<u>43</u>	<u>12</u>	<u>309</u>	
P 6 <u>25</u>	<u>42</u>	<u>15</u>	<u>335</u>	<u>25</u>	<u>43</u>	<u>15</u>	<u>375</u>	
P 7 <u>30</u>	<u>42</u>	<u>18</u>	<u>394</u>	<u>30</u>	<u>43</u>	<u>18</u>	<u>441</u>	
P 8		<u>21</u>	<u>451</u>	<u>35</u>	<u>43</u>	<u>21</u>	<u>508</u>	
P 9		<u>24</u>	<u>508</u>			<u>24</u>	<u>562</u>	
P10		<u>27</u>	<u>569</u>			<u>27</u>	<u>619</u>	
P11		<u>30</u>	<u>623</u>			<u>30</u>	<u>671</u>	
P12		<u>33</u>	<u>677</u>			<u>33</u>	<u>727</u>	
P13		<u>36</u>	<u>727</u>			<u>36</u>	<u>777</u>	
P14		<u>39</u>	<u>777</u>			<u>39</u>	<u>820</u>	
P15		<u>42</u>	<u>822</u>			<u>42</u>	<u>862</u>	
P16		<u>45</u>	<u>864</u>			<u>45</u>	<u>904</u>	
P17		<u>48</u>	<u>906</u>			<u>48</u>	<u>944</u>	
P18		<u>51</u>	<u>946</u>			<u>51</u>	<u>981</u>	
P19		<u>54</u>	<u>987</u>			<u>54</u>	<u>1015</u>	
P20		<u>57</u>	<u>1027</u>			<u>57</u>	<u>1046</u>	

TKT # 10588
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Company Kansas Oil Corporation Lease & Well No. Stewart 'A' #1
 Elevation 1619 Derrick Floor Formation Mississippi Effective Pay - Ft. Ticket No. 10589
 Date 4/15/81 Sec. 18 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Robert Llaymon Western Representative Jim Wondra

Formation Test No. 4 Interval Tested from 4658 ft. to 4710 ft. Total Depth 4710 ft.
 Packer Depth 4653 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4658 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4670 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4673 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Rig #1 Drill Collar Length 180 I. D. 2 1/4 in.
 Mud Type Premix Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.0 Water Loss 15.6 cc. Drill Pipe Length 4457 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 52 ft. Size 5 1/2 OD 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: Fair blow throughout test

Recovered 90 ft. of slightly gas cut mud - few specks of oil
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: Tight hole

Time Set Packer(s) 4:00 ~~A.M.~~ P.M. Time Started Off Bottom 7:00 ~~A.M.~~ P.M. Maximum Temperature 121
 Initial Hydrostatic Pressure (A) 2289 P.S.I.
 Initial Flow Period Minutes 30 (B) 95 P.S.I. to (C) 74 P.S.I.
 Initial Closed In Period Minutes 60 (D) 199 P.S.I.
 Final Flow Period Minutes 30 (E) 106 P.S.I. to (F) 84 P.S.I.
 Final Closed In Period Minutes 60 (G) 160 P.S.I.
 Final Hydrostatic Pressure (H) 2267 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/15/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 10589
 Location 4670 Ft. 121 °F
 Clock No. - Elevation 1619 Derrick Floor Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2289</u>	P.S.I.	<u>4:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>95</u>	P.S.I.	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>74</u>	P.S.I.	<u>60</u>	<u>60</u>
D Initial Closed-in Pressure	<u>199</u>	P.S.I.	<u>30</u>	<u>30</u>
E Second Initial Flow Pressure	<u>106</u>	P.S.I.	<u>60</u>	<u>60</u>
F Second Final Flow Pressure	<u>84</u>	P.S.I.		
G Final Closed-in Pressure	<u>160</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2267</u>	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		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>95</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>106</u>	<u>0</u>	<u>84</u>	
P 2 <u>5</u>	<u>80</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>93</u>	<u>3</u>	<u>84</u>	
P 3 <u>10</u>	<u>74</u>	<u>6</u>	<u>74</u>	<u>10</u>	<u>87</u>	<u>6</u>	<u>84</u>	
P 4 <u>15</u>	<u>74</u>	<u>9</u>	<u>75</u>	<u>15</u>	<u>84</u>	<u>9</u>	<u>87</u>	
P 5 <u>20</u>	<u>74</u>	<u>12</u>	<u>78</u>	<u>20</u>	<u>84</u>	<u>12</u>	<u>89</u>	
P 6 <u>25</u>	<u>74</u>	<u>15</u>	<u>81</u>	<u>25</u>	<u>84</u>	<u>15</u>	<u>92</u>	
P 7 <u>30</u>	<u>74</u>	<u>18</u>	<u>84</u>	<u>30</u>	<u>84</u>	<u>18</u>	<u>95</u>	
P 8		<u>21</u>	<u>91</u>			<u>21</u>	<u>99</u>	
P 9		<u>24</u>	<u>99</u>			<u>24</u>	<u>101</u>	
P10		<u>27</u>	<u>108</u>			<u>27</u>	<u>104</u>	
P11		<u>30</u>	<u>114</u>			<u>30</u>	<u>108</u>	
P12		<u>33</u>	<u>123</u>			<u>33</u>	<u>114</u>	
P13		<u>36</u>	<u>131</u>			<u>36</u>	<u>118</u>	
P14		<u>39</u>	<u>142</u>			<u>39</u>	<u>123</u>	
P15		<u>42</u>	<u>148</u>			<u>42</u>	<u>127</u>	
P16		<u>45</u>	<u>153</u>			<u>45</u>	<u>133</u>	
P17		<u>48</u>	<u>161</u>			<u>48</u>	<u>140</u>	
P18		<u>51</u>	<u>169</u>			<u>51</u>	<u>146</u>	
P19		<u>54</u>	<u>178</u>			<u>54</u>	<u>152</u>	
P20		<u>57</u>	<u>188</u>			<u>57</u>	<u>159</u>	
		<u>60</u>	<u>199</u>			<u>60</u>	<u>160</u>	

TKT # 10589

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