

Company Kansas Oil Corporation Lease & Well No. Kerr #1
 Elevation 1963 Kelly Bushing Formation Howard Effective Pay - Ft. Ticket No. 10969
 Date 5/16/81 Sec. 23 Twp. 28S Range 14W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 3260 ft. to 3296 ft. Total Depth 3296 ft.
 Packer Depth 3255 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3260 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3262 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 3293 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Co. Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 14.2 cc. Drill Pipe Length 2991 I. D. 3.8 in.
 Chlorides 50,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make ---- Serial Number - Anchor Length 36 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 in.

Blow: Strong blow; gas to surface in two minutes on initial flow period. See attached sheet for gas measurements.

Recovered 180 ft. of very gassy and very slightly oil cut mud
 Recovered 240 ft. of very gassy and slightly oil cut mud
 Recovered 120 ft. of very gassy and slightly oil cut salt water
 Recovered 120 ft. of slightly gas cut and oil spotted salt water
 Recovered 600 ft. of slightly gas cut salt water with 132,000 chlorides ppm

Remarks: Tool open approximately ten minutes (tool slid) wt. off and had to reopen.

READ OUTSIDE CHART

Time Set Packer(s) 3:00 ~~A.M.~~ P.M. Time Started Off Bottom 6:45 ~~A.M.~~ P.M. Maximum Temperature 122°
 Initial Hydrostatic Pressure (A) 1688 P.S.I.
 Initial Flow Period Minutes 40 (B) 151 P.S.I. to (C) 242 P.S.I.
 Initial Closed In Period Minutes 57 (D) 1179 P.S.I.
 Final Flow Period Minutes 45 (E) 447 P.S.I. to (F) 501 P.S.I.
 Final Closed In Period Minutes 84 (G) 1181 P.S.I.
 Final Hydrostatic Pressure (H) 1622 P.S.I.

GAS FLOW REPORT

Date 5/16/81 Ticket 10969 Company Kansas Oil Corporation
 Well Name and No. Kerr #1 Dst No. 1 Interval Tested 3260'-3296'
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 14W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Meria 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						
	5 min.	15" of water		1/2" orifice		24,500 CFPD Gas to surface two minutes.
	10 min.	10" of water		1/2" orifice		19,900 CFPD
	20 min.	3" of water		1/2" orifice		10,900 CFPD
	30 min.	--		1/2" orifice		

SECOND FLOW						
	5 min.	6 " of water		1/4" orifice		4,120 CFPD
	10 min.	--		1/4" orifice		---
	20 min.	--		1/4" orifice		---
	30 min.	12" of water		1/4" orifice		5,860 CFPD
	40 min.	15" of water		1/4" orifice		6,550 CFPD
	45 min.	10" of water		1/4" orifice		5,320 CFPD

GAS BOTTLE

Serial No. 634 Date Bottle Filled 5/16/81 Date to be Invoiced 5/16/81

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 L. Layman

WESTERN TESTING CO., INC.
Pressure Data

Date 5/16/81 Recorder No. 3086 Capacity 4500 Test Ticket No. 10969
 Location 3293 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1688</u> P.S.I.	Open Tool	<u>3:00P</u>	<u>M</u>
B First Initial Flow Pressure	<u>151</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>40</u> Mins.
C First Final Flow Pressure	<u>242</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>1179</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>447</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>84</u> Mins.
F Second Final Flow Pressure	<u>501</u> P.S.I.			
G Final Closed-in Pressure	<u>1181</u> P.S.I.			
H Final Hydrostatic Mud	<u>1622</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>28</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>151</u>	<u>0</u>	<u>242</u>	<u>0</u>	<u>447</u>	<u>0</u>	<u>501</u>
P 2 <u>5</u>	<u>145</u>	<u>3</u>	<u>602</u>	<u>5</u>	<u>421</u>	<u>3</u>	<u>760</u>
P 3 <u>10</u>	<u>128</u>	<u>6</u>	<u>737</u>	<u>10</u>	<u>412</u>	<u>6</u>	<u>904</u>
P 4 <u>15</u>	<u>122</u>	<u>9</u>	<u>884</u>	<u>15</u>	<u>412</u>	<u>9</u>	<u>986</u>
P 5 <u>20</u>	<u>137</u>	<u>12</u>	<u>977</u>	<u>20</u>	<u>419</u>	<u>12</u>	<u>1046</u>
P 6 <u>25</u>	<u>159</u>	<u>15</u>	<u>1038</u>	<u>25</u>	<u>429</u>	<u>15</u>	<u>1081</u>
P 7 <u>30</u>	<u>187</u>	<u>18</u>	<u>1079</u>	<u>30</u>	<u>445</u>	<u>18</u>	<u>1107</u>
P 8 <u>35</u>	<u>213</u>	<u>21</u>	<u>1107</u>	<u>35</u>	<u>468</u>	<u>21</u>	<u>1124</u>
P 9 <u>40</u>	<u>242</u>	<u>24</u>	<u>1122</u>	<u>40</u>	<u>490</u>	<u>24</u>	<u>1136</u>
P10		<u>27</u>	<u>1132</u>	<u>45</u>	<u>501</u>	<u>27</u>	<u>1145</u>
P11		<u>30</u>	<u>1142</u>			<u>30</u>	<u>1151</u>
P12		<u>33</u>	<u>1146</u>			<u>33</u>	<u>1154</u>
P13		<u>36</u>	<u>1150</u>			<u>36</u>	<u>1157</u>
P14		<u>39</u>	<u>1154</u>			<u>39</u>	<u>1160</u>
P15		<u>42</u>	<u>1162</u>			<u>42</u>	<u>1163</u>
P16		<u>45</u>	<u>1166</u>			<u>45</u>	<u>1165</u>
P17		<u>48</u>	<u>1170</u>			<u>48</u>	<u>1168</u>
P18		<u>51</u>	<u>1174</u>			<u>51</u>	<u>1169</u>
P19		<u>54</u>	<u>1179</u>			<u>54</u>	<u>1171</u>
P20		<u>57</u>				<u>57</u>	<u>1173</u>
						<u>60</u>	<u>1175</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5/16/81

Test Ticket No. 10969

Recorder No. 3086

Capacity 4500

Location 3293 Ft.

Clock No. -

Elevation 1963 Kelly Bushing

Well Temperature 122 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1688</u>	P.S.I.
B First Initial Flow Pressure	<u>151</u>	P.S.I.
C First Final Flow Pressure	<u>242</u>	P.S.I.
D Initial Closed-in Pressure	<u>1179</u>	P.S.I.
E Second Initial Flow Pressure	<u>447</u>	P.S.I.
F Second Final Flow Pressure	<u>501</u>	P.S.I.
G Final Closed-in Pressure	<u>1181</u>	P.S.I.
H Final Hydrostatic Mud	<u>1622</u>	P.S.I.

	Time Given	Time Computed
Open Tool	<u>3:00P</u>	<u>M</u>
First Flow Pressure	<u>30</u> Mins.	<u>40</u> Mins.
Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
Final Closed-in Pressure	<u>90</u> Mins.	<u>84</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

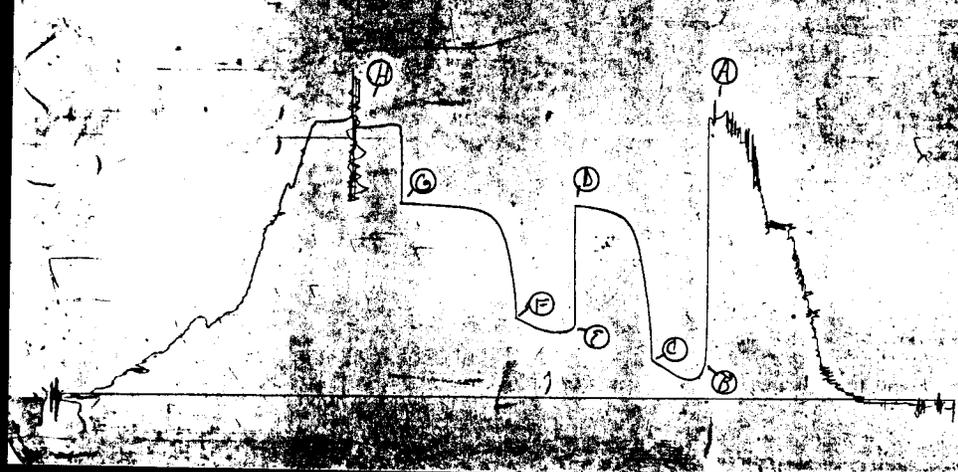
Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 28 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	1177
P 2						66	1179
P 3						69	1180
P 4						72	1180
P 5						75	1181
P 6						78	1181
P 7						81	1181
P 8						84	1181
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

LKT # 10969

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Company Kansas Oil Corporation Lease & Well No. Kerr #1
 Elevation 1963 Kelly Bushing Formation Topeka Effective Pay - Ft. Ticket No. 10970
 Date 5/17/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Mike Rogers

Formation Test No. 2 Interval Tested from 3405 ft. to 3424 ft. Total Depth 3424 ft.
 Packer Depth 3400 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3405 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3408 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 3412 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 16.2 cc. Drill Pipe Length 3136 I. D. 3.8 in.
 Chlorides 63,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 19 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 in.

Blow: Weak three fourth inch blow building to seven inches on initial flow period. Weak three fourth inch throughout final flow period. No gas to surface.

Recovered 30 ft. of slightly gas cut drilling mud
 Recovered 120 ft. of very heavy gas cut drilling mud with very few specks oil
 Recovered 60 ft. of slightly gas cut drilling mud with few specks oil
 Recovered 60 ft. of slightly gas cut watery drilling mud with a few specks oil
 Recovered ft. of

Remarks:

Time Set Packer(s) 7:30 ~~A.M.~~ P.M. Time Started Off Bottom 10:30 ~~A.M.~~ P.M. Maximum Temperature 108°
 Initial Hydrostatic Pressure 1809 P.S.I. (A)
 Initial Flow Period 25 Minutes (B) 147 P.S.I. to (C) 114 P.S.I.
 Initial Closed In Period 75 Minutes (D) 1212 P.S.I.
 Final Flow Period 30 Minutes (E) 203 P.S.I. to (F) 163 P.S.I.
 Final Closed In Period 57 Minutes (G) 1109 P.S.I.
 Final Hydrostatic Pressure 1754 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 5/17/81 Test Ticket No. 10970
 Recorder No. 1566 Capacity 4300 Location 3408 Ft.
 Clock No. -- Elevation 1963 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1809</u> P.S.I.	Open Tool	<u>7:30P</u> M	
B First Initial Flow Pressure	<u>147</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>114</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>75</u> Mins.
D Initial Closed-in Pressure	<u>1212</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>203</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>163</u> P.S.I.			
G Final Closed-in Pressure	<u>1109</u> P.S.I.			
H Final Hydrostatic Mud	<u>1754</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 25 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: 19 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>147</u>	<u>0</u>	<u>114</u>	<u>0</u>	<u>203</u>	<u>0</u>	<u>163</u>
P 2 <u>5</u>	<u>119</u>	<u>3</u>	<u>123</u>	<u>5</u>	<u>167</u>	<u>3</u>	<u>184</u>
P 3 <u>10</u>	<u>114</u>	<u>6</u>	<u>167</u>	<u>10</u>	<u>164</u>	<u>6</u>	<u>290</u>
P 4 <u>15</u>	<u>114</u>	<u>9</u>	<u>253</u>	<u>15</u>	<u>163</u>	<u>9</u>	<u>424</u>
P 5 <u>20</u>	<u>114</u>	<u>12</u>	<u>381</u>	<u>20</u>	<u>163</u>	<u>12</u>	<u>534</u>
P 6 <u>25</u>	<u>114</u>	<u>15</u>	<u>496</u>	<u>25</u>	<u>163</u>	<u>15</u>	<u>621</u>
P 7 _____	_____	<u>18</u>	<u>585</u>	<u>30</u>	<u>163</u>	<u>18</u>	<u>680</u>
P 8 _____	_____	<u>21</u>	<u>665</u>	_____	_____	<u>21</u>	<u>736</u>
P 9 _____	_____	<u>24</u>	<u>729</u>	_____	_____	<u>24</u>	<u>785</u>
P10 _____	_____	<u>27</u>	<u>791</u>	_____	_____	<u>27</u>	<u>834</u>
P11 _____	_____	<u>30</u>	<u>850</u>	_____	_____	<u>30</u>	<u>871</u>
P12 _____	_____	<u>33</u>	<u>895</u>	_____	_____	<u>33</u>	<u>912</u>
P13 _____	_____	<u>36</u>	<u>944</u>	_____	_____	<u>36</u>	<u>945</u>
P14 _____	_____	<u>39</u>	<u>986</u>	_____	_____	<u>39</u>	<u>975</u>
P15 _____	_____	<u>42</u>	<u>1019</u>	_____	_____	<u>42</u>	<u>1006</u>
P16 _____	_____	<u>45</u>	<u>1050</u>	_____	_____	<u>45</u>	<u>1028</u>
P17 _____	_____	<u>48</u>	<u>1077</u>	_____	_____	<u>48</u>	<u>1055</u>
P18 _____	_____	<u>51</u>	<u>1103</u>	_____	_____	<u>51</u>	<u>1077</u>
P19 _____	_____	<u>54</u>	<u>1124</u>	_____	_____	<u>54</u>	<u>1094</u>
P20 _____	_____	<u>57</u>	<u>1141</u>	_____	_____	<u>57</u>	<u>1109</u>
		<u>60</u>	<u>1156</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date 5/17/81

Test Ticket No. 10970

Recorder No. 1566

Capacity 4300

Location 3408 Ft.

Clock No. --

Elevation 1963 Kelly Bushing

Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1809</u> P.S.I.	Open Tool	<u>7:30P</u> M	
B First Initial Flow Pressure	<u>147</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>114</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>75</u> Mins.
D Initial Closed-in Pressure	<u>1212</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>203</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>163</u> P.S.I.			
G Final Closed-in Pressure	<u>1109</u> P.S.I.			
H Final Hydrostatic Mud	<u>1754</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 5 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 25 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.

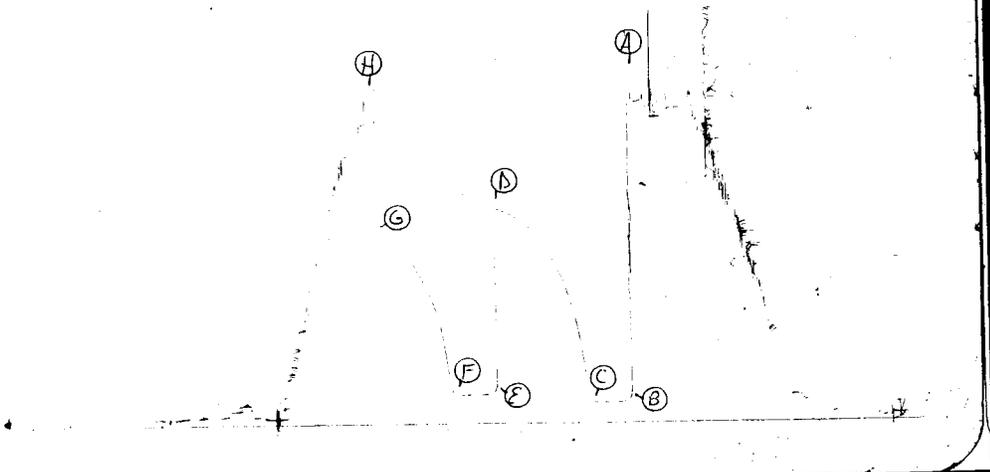
Final Shut-In

Breakdown: 19 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	1169				
P 2		66	1182				
P 3		69	1193				
P 4		72	1202				
P 5		75	1212				
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 10470

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Company Kansas Oil Corporation Lease & Well No. Kerr #1
 Elevation 1963 Kelly Bushing Formation Toronto Effective Pay - Ft. Ticket No. 10971
 Date 5/19/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert Layman Western Representative Mike Rogers

Formation Test No. 3 Interval Tested from 3767 ft. to 3793 ft. Total Depth 3793 ft.
 Packer Depth 3762 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 3767 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3770 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 3774 ft. Recorder Number 3056 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drlg. Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type starch Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.7 Water Loss 13.2 cc. Drill Pipe Length 3498 I. D. 3.8 in.
 Chlorides 61,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 26 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 in.

Blow: Weak building to (1 1/2" depleted to 1/4") on initial flow period. Weak (one inch) depleted to (1/4") on final flow period. No gas to surface

Recovered 30 ft. of very slightly gas cut drilling mud
 Recovered 60 ft. of slightly gas cut drilling mud
 Recovered 60 ft. of slightly gas cut watery drilling mud with few spots of oil in top of tool
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>12:15</u>	<u>AM</u>	Time Started Off Bottom	<u>3:15</u>	<u>AM</u>	Maximum Temperature	<u>109°</u>
		<u>P.M.</u>			<u>P.M.</u>		
Initial Hydrostatic Pressure			(A)	<u>2101</u>			<u>P.S.I.</u>
Initial Flow Period			Minutes	<u>30</u>	(B)	<u>56</u>	<u>P.S.I. to (C) 42</u>
Initial Closed In Period			Minutes	<u>60</u>	(D)	<u>1358</u>	<u>P.S.I.</u>
Final Flow Period			Minutes	<u>30</u>	(E)	<u>117</u>	<u>P.S.I. to (F) 81</u>
Final Closed In Period			Minutes	<u>60</u>	(G)	<u>1334</u>	<u>P.S.I.</u>
Final Hydrostatic Pressure			(H)	<u>1852</u>			<u>P.S.I.</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 5/19/81 10971
 Recorder No. 1566 4300 Test Ticket No. 3770 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 109 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2101 P.S.I.	12:15P M	
B First Initial Flow Pressure	56 P.S.I.	30 Mins	30 Mins.
C First Final Flow Pressure	42 P.S.I.	60 Mins	60 Mins.
D Initial Closed-in Pressure	1358 P.S.I.	30 Mins	30 Mins.
E Second Initial Flow Pressure	117 P.S.I.	60 Mins	60 Mins.
F Second Final Flow Pressure	81 P.S.I.		
G Final Closed-in Pressure	1334 P.S.I.		
H Final Hydrostatic Mud	1852 P.S.I.		

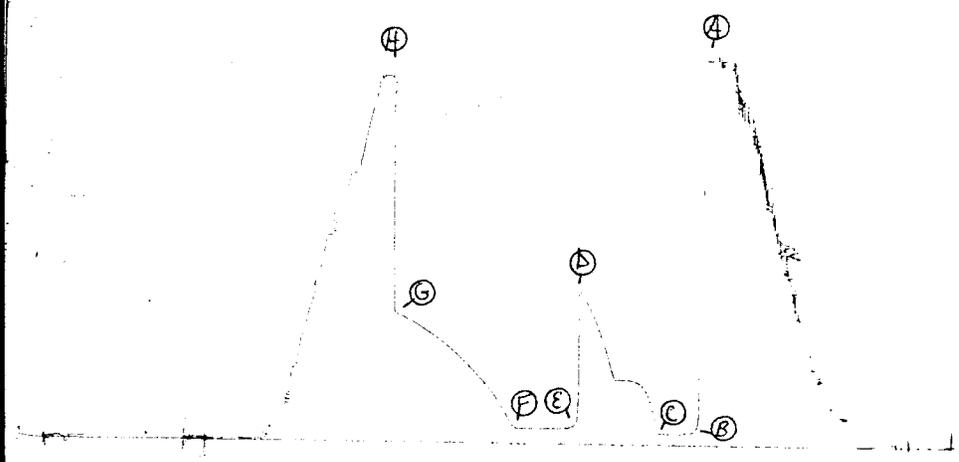
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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 0	56	0	42	0	117	0	81
P 2 5	43	3	45	5	86	3	95
P 3 10	42	6	52	10	81	6	184
P 4 15	42	9	104	15	81	9	344
P 5 20	42	12	233	20	81	12	549
P 6 25	42	15	439	25	81	15	721
P 7 30	42	18	652	30	81	18	897
P 8		21	850			21	1024
P 9		24	890			24	1111
P10		27	1009			27	1165
P11		30	1077			30	1205
P12		33	1229			33	1236
P13		36	1259			36	1259
P14		39	1285			39	1276
P15		42	1304			42	1291
P16		45	1317			45	1302
P17		48	1328			48	1313
P18		51	1337			51	1322
P19		54	1345			54	1326
P20		57	1352			57	1332
WTC - 4		60	1358			60	1334

TKT #. 10972

1566

I



Company Kansas Oil Corporation Lease & Well No. #1 Kerr
 Elevation 1963 Kelly Bushing Location Lansing Effective Pay - Ft. Ticket No. 10972
 Date 5/20/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L Layman Western Representative Mike Rogers

Formation Test No. 4 Interval Tested from 3981 ft. to 4021 ft. Total Depth 4021 ft.

Packer Depth 3976 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3981 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3984 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4018 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Reach Rig #2 Drill Collar Length 248 I. D. 2.2 in.

Mud Type Starch Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 11.0 cc. Drill Pipe Length 3712 I. D. 3.8 in.

Chlorides 50,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 40 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 in.

Blow: Strong blow throughout test. Gas to surface in 28 minutes initial flow period.

See attached sheet for gas measurements.

Recovered 120 ft. of gas cut drilling mud

Recovered 120 ft. of gas cut drilling mud with a very few specks of oil

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 2:30 ~~PM~~ ^{A.M.} Time Started Off Bottom 6:15 ~~PM~~ ^{A.M.} Maximum Temperature 111

Initial Hydrostatic Pressure (A) 2134 P.S.I.

Initial Flow Period Minutes 30 (B) 119 P.S.I. to (C) 63 P.S.I.

Initial Closed In Period Minutes 57 (D) 852 P.S.I.

Final Flow Period Minutes 45 (E) 126 P.S.I. to (F) 88 P.S.I.

Final Closed In Period Minutes 90 (G) 723 P.S.I.

Final Hydrostatic Pressure (H) 2026 P.S.I.

GAS FLOW REPORT

Date 5/21/81 Ticket 10972 Company Kansas Oil Corporation
 Well Name and No. #1 Kerr Dst No. 4 Interval Tested 3981-4021
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 14W

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 28 minutes into initial flow period.

SECOND FLOW						
	5 Min	1.0" water	1/4" Orifice			1,680 C.F.P.D.
	10 Min	5.0" water	1/4" Orifice			3,710 C.F.P.D.
	20 Min	3.0" water	1/4" Orifice			2,920 C.F.P.D.
	30 Min	4.0" water	1/4" Orifice			3,370 C.F.P.D.
	40 Min	2.0" water	1/4" Orifice			2,370 C.F.P.D.
	45 Min	4.0" water	1/4" Orifice			3,370 C.F.P.D.

GAS BOTTLE

Serial No. 84 Date Bottle Filled 5/21/81 Date to be Invoiced 5/21/81

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 Kansas Oil Corporation

Authorized by Robert L. Layman

WESTERN TESTING CO., INC.
Pressure Data

Date 5/20/81 Test Ticket No. 10972
 Recorder No. 1566 Capacity 4300 Location 3984 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2134</u> P.S.I.	Open Tool	<u>2:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>119</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>63</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>852</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>34</u> Mins.
E Second Initial Flow Pressure	<u>126</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>88</u> P.S.I.			
G Final Closed-in Pressure	<u>723</u> P.S.I.			
H Final Hydrostatic Mud	<u>2026</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: 19 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>119</u>	<u>0</u> <u>63</u>	<u>0</u> <u>126</u>	<u>0</u> <u>88</u>			
P 2	<u>5</u> <u>72</u>	<u>3</u> <u>151</u>	<u>5</u> <u>95</u>	<u>3</u> <u>103</u>			
P 3	<u>10</u> <u>65</u>	<u>6</u> <u>235</u>	<u>10</u> <u>89</u>	<u>6</u> <u>138</u>			
P 4	<u>15</u> <u>63</u>	<u>9</u> <u>294</u>	<u>15</u> <u>88</u>	<u>9</u> <u>177</u>			
P 5	<u>20</u> <u>63</u>	<u>12</u> <u>326</u>	<u>20</u> <u>87</u>	<u>12</u> <u>214</u>			
P 6	<u>25</u> <u>63</u>	<u>15</u> <u>344</u>	<u>25</u> <u>87</u>	<u>15</u> <u>248</u>			
P 7	<u>30</u> <u>63</u>	<u>18</u> <u>355</u>	<u>30</u> <u>86</u>	<u>18</u> <u>281</u>			
P 8		<u>21</u> <u>357</u>	<u>35</u> <u>87</u>	<u>21</u> <u>309</u>			
P 9		<u>24</u> <u>358</u>	<u>40</u> <u>87</u>	<u>24</u> <u>337</u>			
P10		<u>27</u> <u>359</u>	<u>45</u> <u>88</u>	<u>27</u> <u>363</u>			
P11		<u>30</u> <u>360</u>		<u>30</u> <u>389</u>			
P12		<u>33</u> <u>360</u>		<u>33</u> <u>409</u>			
P13		<u>36</u> <u>446</u>		<u>36</u> <u>434</u>			
P14		<u>39</u> <u>531</u>		<u>39</u> <u>456</u>			
P15		<u>42</u> <u>600</u>		<u>42</u> <u>478</u>			
P16		<u>45</u> <u>658</u>		<u>45</u> <u>500</u>			
P17		<u>48</u> <u>713</u>		<u>48</u> <u>519</u>			
P18		<u>51</u> <u>770</u>		<u>51</u> <u>539</u>			
P19		<u>54</u> <u>802</u>		<u>54</u> <u>557</u>			
P20		<u>57</u> <u>852</u>		<u>57</u> <u>575</u>			
				<u>60</u> <u>590</u>			

WESTERN TESTING CO., INC.
Pressure Data

Date 5/20/81

Test Ticket No. 10972

Recorder No. 1566

Capacity 4300

Location 3984 Ft.

Clock No. -

Elevation 1963 Kelly Bushing

Well Temperature 111 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2134</u> P.S.I.	Open Tool	<u>2:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>119</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>63</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>852</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>34</u> Mins.
E Second Initial Flow Pressure	<u>126</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>88</u> P.S.I.			
G Final Closed-in Pressure	<u>723</u> P.S.I.			
H Final Hydrostatic Mud	<u>2026</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: 19 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.

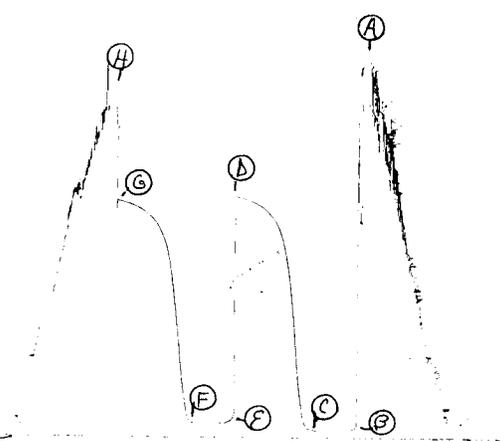
Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						<u>63</u>	<u>605</u>
P 2						<u>66</u>	<u>620</u>
P 3						<u>69</u>	<u>635</u>
P 4						<u>72</u>	<u>650</u>
P 5						<u>75</u>	<u>663</u>
P 6						<u>78</u>	<u>677</u>
P 7						<u>81</u>	<u>688</u>
P 8						<u>84</u>	<u>702</u>
P 9						<u>87</u>	<u>711</u>
P10						<u>90</u>	<u>723</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 10971

1566

I



Company Kansas Oil Corporation Lease & Well No. #1 Kerr
 Elevation 1963 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 10973
 Date 5/22/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L Layman Western Representative Mike Rogers

Formation Test No. 5 Interval Tested from 4128 ft. to 4145 ft. Total Depth 4145 ft.
 Packer Depth 4123 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4128 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4131 ft. Recorder Number 1566 Cap 4300
 Bottom Recorder Depth (Outside) 4135 ft. Recorder Number 3086 Cap 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Reach Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type Starch Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.4+ Water Loss 14.8 cc. Drill Pipe Length 3859 I. D. 3.8 in.
 Chlorides 39,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 17 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 in.

Blow: Strong blow initial flow period. Depleting final flow period. Gas to surface in 9 minutes initial flow period. See attached sheet for gas measurements.

Recovered 240 ft. of heavy gas & watery drilling mud
 Recovered 480 ft. of gas cut salt water Chlorides 118,000 PPM
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:00 ~~PM~~ ^{A.M.} Time Started Off Bottom 8:45 ~~PM~~ ^{A.M.} Maximum Temperature 119
 Initial Hydrostatic Pressure 2199 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 173 P.S.I. to (C) 155 P.S.I.
 Initial Closed In Period 60 Minutes (D) 914 P.S.I.
 Final Flow Period 45 Minutes (E) 287 P.S.I. to (F) 290 P.S.I.
 Final Closed In Period 90 Minutes (G) 912 P.S.I.
 Final Hydrostatic Pressure 2123 P.S.I. (H)

GAS FLOW REPORT

Date 5/22/81 Ticket 10973 Company Kansas Oil Corporation
 Well Name and No. #1 Kerr Dst No. 5 Interval Tested 4128-4145
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 14W

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 9 minutes into initial flow period PRE FLOW						
	10 Min	5 PSIG	1/4" Orifice			20,700 C.F.P.D.
	20 Min	2 PSIG	1/4" Orifice			12,700 C.F.P.D.
	30 Min	2 PSIG	1/4" Orifice			12,700 C.F.P.D.

SECOND FLOW

	5 Min	10" water	1/4" Orifice			5,320 C.F.P.D.
	10 Min	10" water	1/4" Orifice			5,320 C.F.P.D.
	20 Min	8" water	1/4" Orifice			4,760 C.F.P.D.
	30 Min	2" water	1/4" Orifice			2,370 C.F.P.D.
	40 Min	5" water	1/4" Orifice			3,710 C.F.P.D.
	45 Min	7" water	1/4" Orifice			4,450 C.F.P.D.

GAS BOTTLE

Serial No. 622 Date Bottle Filled 5/22/81 Date to be Invoiced 5/22/81

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 Kansas Oil Corporation

Authorized by Robert L Layman

WESTERN TESTING CO., INC.
Pressure Data

Date 5/22/81 Test Ticket No. 10973
 Recorder No. 1566 Capacity 4300 Location 4131 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2199</u> P.S.I.	Open Tool	<u>5:00A</u> M	
B First Initial Flow Pressure	<u>173</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>155</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>914</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>287</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>290</u> P.S.I.			
G Final Closed-in Pressure	<u>912</u> P.S.I.			
H Final Hydrostatic Mud	<u>2123</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>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>30</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>173</u>	<u>0</u>	<u>155</u>	<u>0</u>	<u>287</u>	<u>0</u>	<u>290</u>
P 2 <u>5</u>	<u>121</u>	<u>3</u>	<u>493</u>	<u>5</u>	<u>246</u>	<u>3</u>	<u>571</u>
P 3 <u>10</u>	<u>116</u>	<u>6</u>	<u>598</u>	<u>10</u>	<u>240</u>	<u>6</u>	<u>652</u>
P 4 <u>15</u>	<u>121</u>	<u>9</u>	<u>688</u>	<u>15</u>	<u>242</u>	<u>9</u>	<u>693</u>
P 5 <u>20</u>	<u>133</u>	<u>12</u>	<u>733</u>	<u>20</u>	<u>252</u>	<u>12</u>	<u>723</u>
P 6 <u>25</u>	<u>146</u>	<u>15</u>	<u>768</u>	<u>25</u>	<u>261</u>	<u>15</u>	<u>746</u>
P 7 <u>30</u>	<u>155</u>	<u>18</u>	<u>791</u>	<u>30</u>	<u>264</u>	<u>18</u>	<u>766</u>
P 8 _____	_____	<u>21</u>	<u>807</u>	<u>35</u>	<u>272</u>	<u>21</u>	<u>781</u>
P 9 _____	_____	<u>24</u>	<u>822</u>	<u>40</u>	<u>281</u>	<u>24</u>	<u>791</u>
P10 _____	_____	<u>27</u>	<u>837</u>	<u>45</u>	<u>290</u>	<u>27</u>	<u>806</u>
P11 _____	_____	<u>30</u>	<u>850</u>	_____	_____	<u>30</u>	<u>816</u>
P12 _____	_____	<u>33</u>	<u>862</u>	_____	_____	<u>33</u>	<u>826</u>
P13 _____	_____	<u>36</u>	<u>872</u>	_____	_____	<u>36</u>	<u>836</u>
P14 _____	_____	<u>39</u>	<u>882</u>	_____	_____	<u>39</u>	<u>846</u>
P15 _____	_____	<u>42</u>	<u>888</u>	_____	_____	<u>42</u>	<u>850</u>
P16 _____	_____	<u>45</u>	<u>894</u>	_____	_____	<u>45</u>	<u>855</u>
P17 _____	_____	<u>48</u>	<u>899</u>	_____	_____	<u>48</u>	<u>859</u>
P18 _____	_____	<u>51</u>	<u>903</u>	_____	_____	<u>51</u>	<u>864</u>
P19 _____	_____	<u>54</u>	<u>907</u>	_____	_____	<u>54</u>	<u>869</u>
P20 _____	_____	<u>57</u>	<u>910</u>	_____	_____	<u>57</u>	<u>874</u>
		<u>60</u>	<u>914</u>			<u>60</u>	<u>881</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 5/22/81 Test Ticket No. 10973
 Recorder No. 1566 Capacity 4300 Location 4131 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2199</u> P.S.I.	Open Tool	<u>5:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>173</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>155</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>914</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>287</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>290</u> P.S.I.			
G Final Closed-in Pressure	<u>912</u> P.S.I.			
H Final Hydrostatic Mud	<u>2123</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.

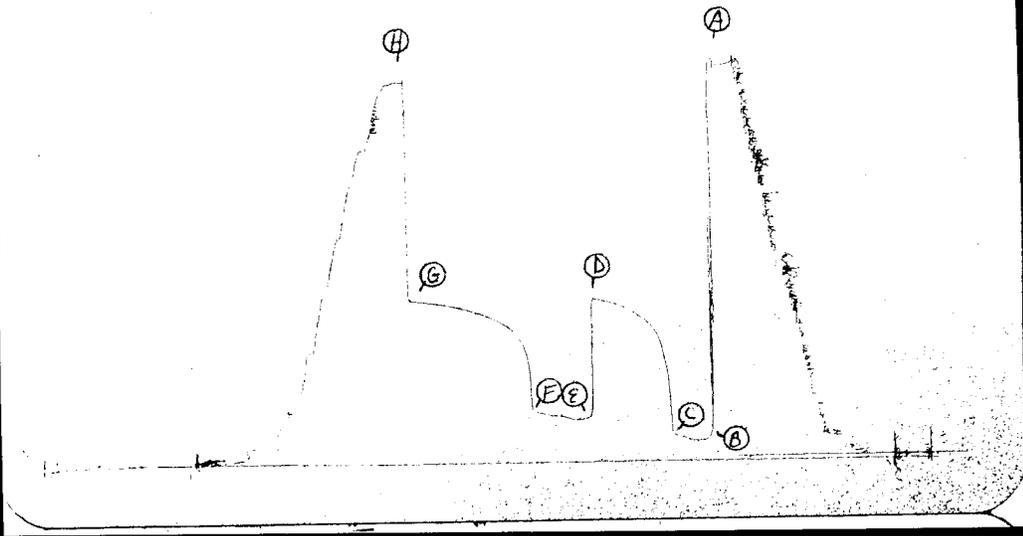
Final Shut-In
 Breakdown: 30 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	884
P 2						66	887
P 3						69	890
P 4						72	895
P 5						75	899
P 6						78	902
P 7						81	905
P 8						84	908
P 9						87	910
P10						90	912
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 10973

1266

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Company Kansas Oil Corporation Lease & Well No. #1 Kerr
 Elevation 1963 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 10974
 Date 5/23/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L Laymon Western Representative Mike Rogers

Formation Test No. 6 Interval Tested from 4149 ft. to 4170 ft. Total Depth 4170 ft.
 Packer Depth 4144 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4149 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4152 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4156 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type Starch Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 17.6 cc. Drill Pipe Length 3880 I. D. 3.8 in.
 Chlorides 46,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 21 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 in.

Blow: Strong blow throughout test. Gas to surface in 4 minutes on initial flow period.
See attached sheet for gas measurements.

Recovered 300 ft. of free oil with 15% drilling mud; 5% water; 80% oil;
 Recovered 120 ft. of Middle - 10% drilling mud; 5% water; 85% oil
 Recovered 180 ft. of heavy oil & gas cut salt water
 Recovered 180 ft. of gassy salt water with a few specks oil Chlorides 162,000 PPM
 Recovered ft. of

Remarks:

Time Set	Packer(s)	<u>A.M.</u> <u>P.M.</u>	Time Started Off Bottom	Pressure	Maximum Temperature
	<u>4:00</u>		<u>7:45</u>		<u>121</u>
Initial Hydrostatic Pressure			(A) <u>2188</u>	<u>P.S.I.</u>	
Initial Flow Period	Minutes <u>30</u>		(B) <u>303</u>	<u>P.S.I. to (C)</u>	<u>197</u> P.S.I.
Initial Closed In Period	Minutes <u>60</u>		(D) <u>1055</u>	<u>P.S.I.</u>	
Final Flow Period	Minutes <u>40</u>		(E) <u>279</u>	<u>P.S.I. to (F)</u>	<u>189</u> P.S.I.
Final Closed In Period	Minutes <u>96</u>		(G) <u>1053</u>	<u>P.S.I.</u>	
Final Hydrostatic Pressure			(H) <u>2026</u>	<u>P.S.I.</u>	

GAS FLOW REPORT

Date 5/23/81 Ticket 10974 Company Kansas Oil Corporation
 Well Name and No. #1 Kerr Dst No. 6 Interval Tested 4149-4170
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 14W

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 in 4 minutes into initial flow period						
	5 Min	35 PSIG	1½" Orifice			2,858,000 C.F.P.D.
	10 Min	30 PSIG	1½" Orifice			2,558,000 C.F.P.D.
	20 Min	25 PSIG	1½" Orifice			2,258,000 C.F.P.D.
	30 Min	10 PSIG	1½" Orifice			1,274,000 C.F.P.D.

SECOND FLOW						
	5 Min	30 PSIG	3/4" Orifice			522,000 C.F.P.D.
	10 Min	40 PSIG	3/4" Orifice			639,000 C.F.P.D.
	20 Min	26 PSIG	3/4" Orifice			473,000 C.F.P.D.
	30 Min	17 PSIG	3/4" Orifice			357,000 C.F.P.D.
	40 Min	10 PSIG	3/4" Orifice			259,000 C.F.P.D.
	45 Min	9 PSIG	3/4" Orifice			245,000 C.F.P.D.

GAS BOTTLE

Serial No. 211 Date Bottle Filled 5/23/81 Date to be Invoiced 5/23/81

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 Kansas Oil Corporation
 Authorized by Robert L Laymon

WESTERN TESTING CO., INC.
Pressure Data

Date 5/23/81

Test Ticket No. 10974

Recorder No. 1566

Capacity 4300 Location 4152 Ft.

Clock No. -

Elevation 1963 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2188</u> P.S.I.	Open Tool	<u>4:00A</u> M	
B First Initial Flow Pressure	<u>303</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>197</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1055</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>279</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins	<u>96</u> Mins.
F Second Final Flow Pressure	<u>189</u> P.S.I.			
G Final Closed-in Pressure	<u>1053</u> P.S.I.			
H Final Hydrostatic Mud	<u>2026</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: 8 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 32 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>303</u>	<u>0</u>	<u>197</u>	<u>0</u>	<u>279</u>	<u>0</u>	<u>189</u>
P 2 <u>5</u>	<u>296</u>	<u>3</u>	<u>815</u>	<u>5</u>	<u>248</u>	<u>3</u>	<u>695</u>
P 3 <u>10</u>	<u>259</u>	<u>6</u>	<u>888</u>	<u>10</u>	<u>227</u>	<u>6</u>	<u>785</u>
P 4 <u>15</u>	<u>229</u>	<u>9</u>	<u>914</u>	<u>15</u>	<u>210</u>	<u>9</u>	<u>830</u>
P 5 <u>20</u>	<u>216</u>	<u>12</u>	<u>938</u>	<u>20</u>	<u>197</u>	<u>12</u>	<u>865</u>
P 6 <u>25</u>	<u>203</u>	<u>15</u>	<u>953</u>	<u>25</u>	<u>190</u>	<u>15</u>	<u>890</u>
P 7 <u>30</u>	<u>197</u>	<u>18</u>	<u>966</u>	<u>30</u>	<u>189</u>	<u>18</u>	<u>910</u>
P 8 _____		<u>21</u>	<u>976</u>	<u>35</u>	<u>189</u>	<u>21</u>	<u>927</u>
P 9 _____		<u>24</u>	<u>987</u>	<u>40</u>	<u>189</u>	<u>24</u>	<u>940</u>
P10 _____		<u>27</u>	<u>998</u>			<u>27</u>	<u>953</u>
P11 _____		<u>30</u>	<u>1006</u>			<u>30</u>	<u>963</u>
P12 _____		<u>33</u>	<u>1013</u>			<u>33</u>	<u>974</u>
P13 _____		<u>36</u>	<u>1019</u>			<u>36</u>	<u>981</u>
P14 _____		<u>39</u>	<u>1026</u>			<u>39</u>	<u>989</u>
P15 _____		<u>42</u>	<u>1030</u>			<u>42</u>	<u>996</u>
P16 _____		<u>45</u>	<u>1034</u>			<u>45</u>	<u>1002</u>
P17 _____		<u>48</u>	<u>1039</u>			<u>48</u>	<u>1005</u>
P18 _____		<u>51</u>	<u>1043</u>			<u>51</u>	<u>1010</u>
P19 _____		<u>54</u>	<u>1047</u>			<u>54</u>	<u>1013</u>
P20 _____		<u>57</u>	<u>1051</u>			<u>57</u>	<u>1018</u>
		<u>60</u>	<u>1055</u>			<u>60</u>	<u>1021</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 5/23/81 Test Ticket No. 10974
 Recorder No. 1566 Capacity 4300 Location 4152 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 121 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	2188 P.S.I.	Open Tool	4:00A	M
B First Initial Flow Pressure	303 P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	197 P.S.I.	Initial Closed-in Pressure	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1055 P.S.I.	Second Flow Pressure	45	Mins. 40 Mins.
E Second Initial Flow Pressure	279 P.S.I.	Final Closed-in Pressure	90	Mins. 96 Mins.
F Second Final Flow Pressure	189 P.S.I.			
G Final Closed-in Pressure	1053 P.S.I.			
H Final Hydrostatic Mud	2026 P.S.I.			

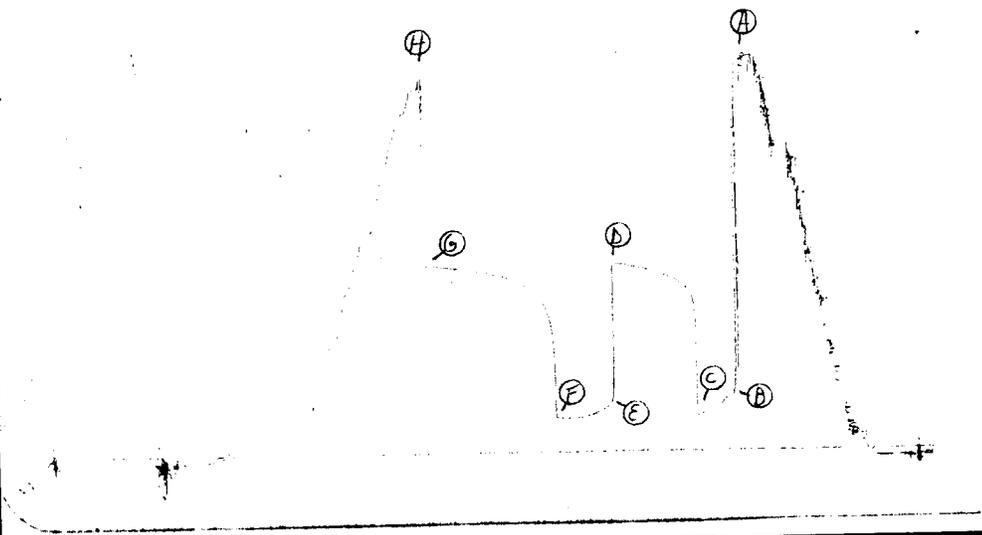
PRESSURE BREAKDOWN

<p>First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Second Flow Pressure Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.</p>	<p>Final Shut-In Breakdown: <u>32</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.</p>
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1025		
P 2				66	1028		
P 3				69	1032		
P 4				72	1034		
P 5				75	1038		
P 6				78	1041		
P 7				81	1043		
P 8				84	1045		
P 9				87	1047		
P10				90	1049		
P11				93	1051		
P12				96	1053		
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TRT # 10974
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1566



Company Kansas Oil Corporation Lease & Well No. #1 Kerr
 Elevation 1963 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 10975
 Date 5/23/81 Sec. 23 Twp 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L Laymon Western Representative Mike Rogers

Formation Test No. 7 Interval Tested from 4164 ft. to 4185 ft. Total Depth 4185 ft.
 Packer Depth 4159 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4164 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4167 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4171 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type Starch Viscosity 51 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 3895 I. D. 3.8 in.
 Chlorides 48,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 21 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 in.

Blow: Strong throughout test. Gas to surface in 3 minutes. initial flow period. See attached sheet for gas measurements.

Recovered 120 ft. of free oil - 83% oil; 10% mud; 7% water
 Recovered 300 ft. of free oil - 99% oil; 1% mud
 Recovered 60 ft. of oil & gas cut salt water Chlorides 110,000 PPM
 Recovered 120 ft. of salt water Chlorides 110,000 PPM
 Recovered ft. of

Remarks:

Time Set Packer(s) 11:45 ~~A.M.~~ P.M. Time Started Off Bottom 3:30 ~~A.M.~~ P.M. Maximum Temperature 118
 Initial Hydrostatic Pressure 2210 (A) P.S.I.
 Initial Flow Period 30 (B) 281 P.S.I. to (C) 157 P.S.I.
 Initial Closed In Period 60 (D) 1103 P.S.I.
 Final Flow Period 40 (E) 259 P.S.I. to (F) 166 P.S.I.
 Final Closed In Period 87 (G) 1073 P.S.I.
 Final Hydrostatic Pressure 2101 (H) P.S.I.

GAS FLOW REPORT

Date 5/23/81 Ticket 10975 Company Kansas Oil Corporation
 Well Name and No. #1 Kerr Dst No. 7 Interval Tested 4164-4185
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 14W

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 in 3 minutes initial flow period						
	5 Min	30 PSIG	3/4" Orifice			522,000 C.F.P.D.
	10 Min	40 PSIG	3/4" Orifice			639,000 C.F.P.D.
	20 Min	34 PSIG	3/4" Orifice			569,000 C.F.P.D.
	30 Min	19 PSIG	3/4" Orifice			384,000 C.F.P.D.

SECOND FLOW

	5 Min	26 PSIG	3/4" Orifice			473,000 C.F.P.D.
	10 Min	20 PSIG	3/4" Orifice			398,000 C.F.P.D.
	20 Min	11 PSIG	3/4" Orifice			274,000 C.F.P.D.
	30 Min	8 PSIG	3/4" Orifice			227,000 C.F.P.D.
	40 Min	6 PSIG	3/4" Orifice			194,000 C.F.P.D.
	45 Min	5 PSIG	3/4" Orifice			175,000 C.F.P.D.

GAS BOTTLE

Serial No. 43 Date Bottle Filled 5/23/81 Date to be Invoiced 5/23/81

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 Kansas Oil Corporation
 Authorized by Robert L Laymon

WESTERN TESTING CO., INC.

Pressure Data

Date 5/23/81 Test Ticket No. 10975
 Recorder No. 1566 Capacity 4300 Location 4167 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 118 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
				M	Mins.
A	Initial Hydrostatic Mud	2210		11:45P	
B	First Initial Flow Pressure	281	First Flow Pressure	30	30
C	First Final Flow Pressure	157	Initial Closed-in Pressure	60	60
D	Initial Closed-in Pressure	1103	Second Flow Pressure	45	40
E	Second Initial Flow Pressure	259	Final Closed-in Pressure	90	87
F	Second Final Flow Pressure	166			
G	Final Closed-in Pressure	1073			
H	Final Hydrostatic Mud	2101			

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: 8 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 29 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 0	281	0	157	0	259	0	166
P 2 5	222	3	794	5	197	3	703
P 3 10	197	6	897	10	177	6	796
P 4 15	181	9	946	15	166	9	850
P 5 20	171	12	976	20	166	12	884
P 6 25	162	15	998	25	166	15	912
P 7 30	157	18	1013	30	166	18	931
P 8		21	1030	35	166	21	946
P 9		24	1043	40	166	24	961
P10		27	1054			27	974
P11		30	1062			30	987
P12		33	1068			33	996
P13		36	1075			36	1004
P14		39	1079			39	1013
P15		42	1083			42	1021
P16		45	1088			45	1030
P17		48	1092			48	1036
P18		51	1096			51	1041
P19		54	1098			54	1045
P20		57	1101			57	1049
		60	1103			60	1051

WESTERN TESTING CO., INC.
Pressure Data

Date 5/23/81 Test Ticket No. 10975
 Recorder No. 1566 Capacity 4300 Location 4167 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2210</u> P.S.I.	Open Tool	<u>11:45P</u> M	
B First Initial Flow Pressure	<u>281</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>157</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1103</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>259</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins	<u>87</u> Mins.
F Second Final Flow Pressure	<u>166</u> P.S.I.			
G Final Closed-in Pressure	<u>1073</u> P.S.I.			
H Final Hydrostatic Mud	<u>2101</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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>8</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>29</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1056
P 2						66	1060
P 3						69	1062
P 4						72	1066
P 5						75	1067
P 6						78	1069
P 7						81	1071
P 8						84	1072
P 9						87	1073
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Company Kansas Oil Corporation Lease & Well No. #1 Kerr
 Elevation 1963 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 10551
 Date 5/24/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L Laymon Western Representative Mike Rogers

Formation Test No. 8 Interval Tested from 4190 ft. to 4209 ft. Total Depth 4209 ft.
 Packer Depth 4185 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4190 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4193 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4197 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type Starch Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 12.0 cc. Drill Pipe Length 3921 I. D. 3.8 in.
 Chlorides 50,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 19 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 in.

Blow: Strong blow throughout test. No gas to surface.

Recovered 30 ft. of very slightly gas cut drilling mud
 Recovered 180 ft. of gas cut & oil spotted drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:45 ~~AM~~ P.M. Time Started Off Bottom 9:45 ~~AM~~ P.M. Maximum Temperature 119
 Initial Hydrostatic Pressure (A) 2167 P.S.I.
 Initial Flow Period Minutes 30 (B) 93 P.S.I. to (C) 60 P.S.I.
 Initial Closed In Period Minutes 57 (D) 1173 P.S.I.
 Final Flow Period Minutes 30 (E) 108 P.S.I. to (F) 82 P.S.I.
 Final Closed In Period Minutes 57 (G) 1103 P.S.I.
 Final Hydrostatic Pressure (H) 2145 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/24/81 Test Ticket No. 10551
 Recorder No. 1566 Capacity 4300 Location 4193 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 119 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2167</u> P.S.I.	<u>6:45P</u> M	
B First Initial Flow Pressure	<u>93</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>60</u> P.S.I.	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>1173</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>108</u> P.S.I.	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>82</u> P.S.I.		
G Final Closed-in Pressure	<u>1103</u> P.S.I.		
H Final Hydrostatic Mud	<u>2145</u> P.S.I.		

PRESSURE BREAKDOWN

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

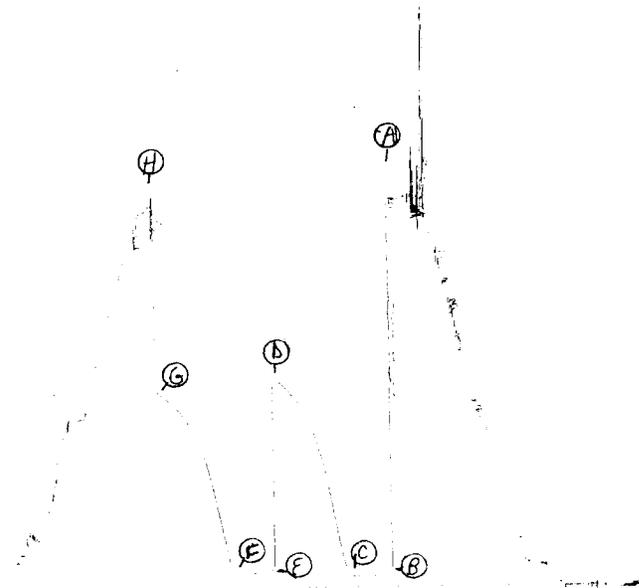
Initial Shut-In
 Breakdown: 19 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 19 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>93</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>108</u>	<u>0</u>	<u>82</u>
P 2 <u>5</u>	<u>69</u>	<u>3</u>	<u>76</u>	<u>5</u>	<u>86</u>	<u>3</u>	<u>132</u>
P 3 <u>10</u>	<u>63</u>	<u>6</u>	<u>147</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>246</u>
P 4 <u>15</u>	<u>60</u>	<u>9</u>	<u>251</u>	<u>15</u>	<u>82</u>	<u>9</u>	<u>359</u>
P 5 <u>20</u>	<u>60</u>	<u>12</u>	<u>372</u>	<u>20</u>	<u>82</u>	<u>12</u>	<u>448</u>
P 6 <u>25</u>	<u>60</u>	<u>15</u>	<u>489</u>	<u>25</u>	<u>82</u>	<u>15</u>	<u>551</u>
P 7 <u>30</u>	<u>60</u>	<u>18</u>	<u>601</u>	<u>30</u>	<u>82</u>	<u>18</u>	<u>641</u>
P 8 _____		<u>21</u>	<u>701</u>			<u>21</u>	<u>721</u>
P 9 _____		<u>24</u>	<u>781</u>			<u>24</u>	<u>781</u>
P10 _____		<u>27</u>	<u>852</u>			<u>27</u>	<u>830</u>
P11 _____		<u>30</u>	<u>908</u>			<u>30</u>	<u>877</u>
P12 _____		<u>33</u>	<u>955</u>			<u>33</u>	<u>916</u>
P13 _____		<u>36</u>	<u>996</u>			<u>36</u>	<u>953</u>
P14 _____		<u>39</u>	<u>1032</u>			<u>39</u>	<u>985</u>
P15 _____		<u>42</u>	<u>1060</u>			<u>42</u>	<u>1006</u>
P16 _____		<u>45</u>	<u>1086</u>			<u>45</u>	<u>1032</u>
P17 _____		<u>48</u>	<u>1111</u>			<u>48</u>	<u>1054</u>
P18 _____		<u>51</u>	<u>1137</u>			<u>51</u>	<u>1073</u>
P19 _____		<u>54</u>	<u>1156</u>			<u>54</u>	<u>1090</u>
P20 _____		<u>57</u>	<u>1173</u>			<u>57</u>	<u>1103</u>

IKT 7.10.51
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Company Kansas Oil Corporation Lease & Well No. Kerr#1
 Elevation 1963 Kelly Bushing Formation Swope Effective Pay --- Ft. Ticket No. 10552
 Date 5/26/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Mike Rogers

Formation Test No. 9 Interval Tested from 4291 ft. to 4330 ft. Total Depth 4330 ft.

Packer Depth 4286 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4291 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4294 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4298 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Reach Petroleum Drlg. Rig #2 Drill Collar Length 248 I. D. 2.2 in.

Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 17.4 cc. Drill Pipe Length 4022 I. D. 3.8 in.

Chlorides 54,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 39 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 in.

Blow: Strong blow throughout test. Gas to surface in one and one half minutes. See attached sheet for gas measurements.

Recovered 5 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Read bottom (outside) recorder. Baseline not accurate on top.

Time Set Packer(s) 3:45 A.M. PM Time Started Off Bottom 7:30 A.M. PM Maximum Temperature 117°

Initial Hydrostatic Pressure (A) 2020 P.S.I.

Initial Flow Period Minutes 30 (B) 639 P.S.I. to (C) 487 P.S.I.

Initial Closed In Period Minutes 60 (D) 1369 P.S.I.

Final Flow Period Minutes 40 (E) 641 P.S.I. to (F) 441 P.S.I.

Final Closed In Period Minutes 102 (G) 1357 P.S.I.

Final Hydrostatic Pressure (H) 1928 P.S.I.

GAS FLOW REPORT

Date 5/26/81 Ticket 10552 Company Kansas Oil Corporation
 Well Name and No. Kerr #1 Dst No. 9 Interval Tested 4291'-4330'
 County Pratt State Kansas Sec. 23 Twp. 29S Rg. 14W

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						
	5 min.	70 PSIG	2" orifice			8,060,000 CFPD
	10 min.	65 PSIG	2" orifice			7,600,000 CFPD
	20 min.	50 PSIG	2" orifice			6,160,000 CFPD
	30 min.	50 PSIG	2" orifice			6,160,000 CFPD

SECOND FLOW						
	5 min.	50 PSIG	2" orifice			6,160,000 CFPD
	10 min.	55 PSIG	2" orifice			6,640,000 CFPD
	20 min.	65 PSIG	2" orifice			7,600,000 CFPD *
	30 min.	60 PSIG	2" orifice			7,120,000 CFPD *
	40 min.	60 PSIG	2" orifice			7,120,000 CFPD *
	45 min.	55 PSIG	2" orifice			6,640,000 CFPD *
* STARRED FINE MIST SPRAY						

GAS BOTTLE

Serial No. ---- Date Bottle Filled ----- Date to be Invoiced 5/26/81

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 1½% 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
Robert L. Layman
 Authorized by _____

WESTERN TESTING CO., INC.
Pressure Data

Date 5/26/81 Test Ticket No. 10552
 Recorder No. 3086 Capacity 4500 Location 4298 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2020</u> P.S.I.	Open Tool	<u>3:45A</u> M	
B First Initial Flow Pressure	<u>639</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>487</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1369</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>641</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>102</u> Mins.
F Second Final Flow Pressure	<u>441</u> P.S.I.			
G Final Closed-in Pressure	<u>1357</u> P.S.I.			
H Final Hydrostatic Mud	<u>1928</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: 34 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>639</u>	<u>0</u>	<u>487</u>	<u>0</u>	<u>641</u>	<u>0</u>	<u>441</u>
P 2 <u>5</u>	<u>603</u>	<u>3</u>	<u>1146</u>	<u>5</u>	<u>578</u>	<u>3</u>	<u>1062</u>
P 3 <u>10</u>	<u>566</u>	<u>6</u>	<u>1190</u>	<u>10</u>	<u>541</u>	<u>6</u>	<u>1118</u>
P 4 <u>15</u>	<u>534</u>	<u>9</u>	<u>1225</u>	<u>15</u>	<u>517</u>	<u>9</u>	<u>1150</u>
P 5 <u>20</u>	<u>509</u>	<u>12</u>	<u>1244</u>	<u>20</u>	<u>498</u>	<u>12</u>	<u>1175</u>
P 6 <u>25</u>	<u>491</u>	<u>15</u>	<u>1264</u>	<u>25</u>	<u>480</u>	<u>15</u>	<u>1197</u>
P 7 <u>30</u>	<u>487</u>	<u>18</u>	<u>1281</u>	<u>30</u>	<u>465</u>	<u>18</u>	<u>1214</u>
P 8		<u>21</u>	<u>1293</u>	<u>35</u>	<u>451</u>	<u>21</u>	<u>1229</u>
P 9		<u>24</u>	<u>1304</u>	<u>40</u>	<u>441</u>	<u>24</u>	<u>1242</u>
P10		<u>27</u>	<u>1315</u>			<u>27</u>	<u>1251</u>
P11		<u>30</u>	<u>1322</u>			<u>30</u>	<u>1264</u>
P12		<u>33</u>	<u>1330</u>			<u>33</u>	<u>1272</u>
P13		<u>36</u>	<u>1338</u>			<u>36</u>	<u>1281</u>
P14		<u>39</u>	<u>1343</u>			<u>39</u>	<u>1286</u>
P15		<u>42</u>	<u>1350</u>			<u>42</u>	<u>1293</u>
P16		<u>45</u>	<u>1352</u>			<u>45</u>	<u>1298</u>
P17		<u>48</u>	<u>1355</u>			<u>48</u>	<u>1304</u>
P18		<u>51</u>	<u>1358</u>			<u>51</u>	<u>1310</u>
P19		<u>54</u>	<u>1362</u>			<u>54</u>	<u>1313</u>
P20		<u>57</u>	<u>1365</u>			<u>57</u>	<u>1317</u>
		<u>60</u>	<u>1369</u>			<u>60</u>	<u>1325</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 5/26/81

Test Ticket No. 10552

Recorder No. 3086 Capacity 4500 Location 4298 Ft.

Clock No. - Elevation 1963 Kelly Bushing Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2020</u> P.S.I.	Open Tool	<u>3:45A</u> M	
B First Initial Flow Pressure	<u>639</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>487</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1369</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>641</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>102</u> Mins.
F Second Final Flow Pressure	<u>441</u> P.S.I.			
G Final Closed-in Pressure	<u>1357</u> P.S.I.			
H Final Hydrostatic Mud	<u>1928</u> P.S.I.			

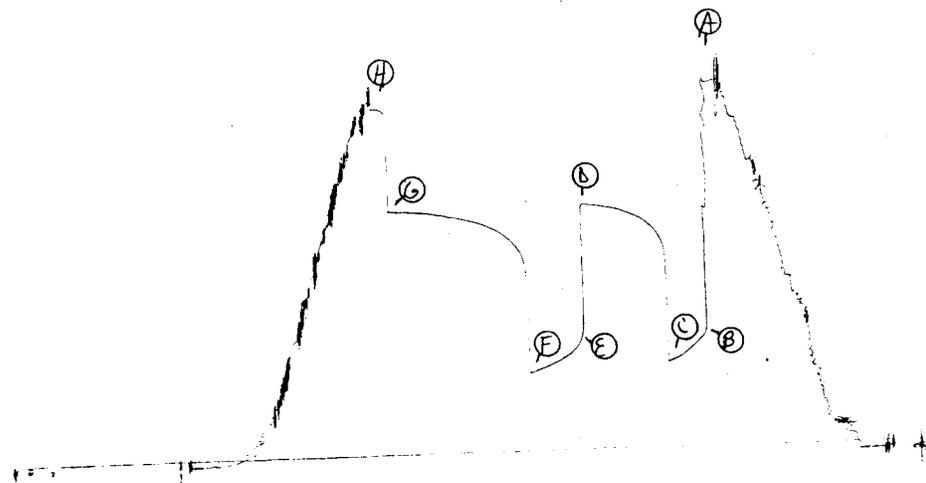
PRESSURE BREAKDOWN

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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>3/4</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1329
P 2						66	1333
P 3						69	1337
P 4						72	1339
P 5						75	1341
P 6						78	1343
P 7						81	1345
P 8						84	1347
P 9						87	1349
P10						90	1351
P11						93	1353
P12						96	1355
P13						99	1356
P14						102	1357
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 10552

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Company Kansas Oil Corporation Lease & Well No. Kerr #1
 Elevation 1963 Kelly Bushing Simpson Formation Simpson Effective Pay - Ft. Ticket No. 10553
 Date 5/28/81 Sec. 23 Twp. 29S Range 14W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Mike Rogers

Formation Test No. 10 Interval Tested from 4537 ft. to 4563 ft. Total Depth 4563 ft.
 Packer Depth 4532 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4537 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4540 ft. Recorder Number 1566 Cap. 4300
 Bottom Recorder Depth (Outside) 4544 ft. Recorder Number 3086 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reach Drilling Rig #2 Drill Collar Length 248 I. D. 2.2 in.
 Mud Type starch Viscosity 56 Weight Pipe Length - I. D. - in.
 Weight 9.6+ Water Loss 11.0 cc. Drill Pipe Length 4268 I. D. 3.8 in.
 Chlorides 50,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 26 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 in.

Blow: Very weak initial flow period; dead on final flow period. Flushed tool after three minutes. Tool OK. Dead six to twelve minutes then weak remainder of test.

Recovered 90 ft. of gas cut and oil spotted drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set	Packer(s)		Time Started Off Bottom		Maximum Temperature
	<u>4:00</u>	<u>A.M.</u> P.M.	<u>7:00</u>	<u>A.M.</u> P.M.	<u>120°</u>
Initial Hydrostatic Pressure			(A) <u>2450</u>	P.S.I.	
Initial Flow Period		Minutes <u>30</u>	(B) <u>41</u>	P.S.I. to (C)	<u>41</u> P.S.I.
Initial Closed In Period		Minutes <u>60</u>	(D) <u>981</u>	P.S.I.	
Final Flow Period		Minutes <u>30</u>	(E) <u>83</u>	P.S.I. to (F)	<u>83</u> P.S.I.
Final Closed In Period		Minutes <u>60</u>	(G) <u>972</u>	P.S.I.	
Final Hydrostatic Pressure			(H) <u>2352</u>	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 5/28/81 Test Ticket No. 10553
 Recorder No. 1566 Capacity 4300 Location 4540 Ft.
 Clock No. - Elevation 1963 Kelly Bushing Well Temperature 120 °F

Point	Pressure			Time	
				Given	Computed
A Initial Hydrostatic Mud	2450	P.S.I.	Open Tool	4:00A	M
B First Initial Flow Pressure	41	P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	41	P.S.I.	Initial Closed-in Pressure	60	Mins. 60 Mins.
D Initial Closed-in Pressure	981	P.S.I.	Second Flow Pressure	30	Mins. 30 Mins.
E Second Initial Flow Pressure	83	P.S.I.	Final Closed-in Pressure	60	Mins. 60 Mins.
F Second Final Flow Pressure	83	P.S.I.			
G Final Closed-in Pressure	972	P.S.I.			
H Final Hydrostatic Mud	2352	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>41</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>83</u>	<u>0</u>	<u>83</u>
P 2 <u>5</u>	<u>41</u>	<u>3</u>	<u>71</u>	<u>5</u>	<u>83</u>	<u>3</u>	<u>108</u>
P 3 <u>10</u>	<u>41</u>	<u>6</u>	<u>201</u>	<u>10</u>	<u>83</u>	<u>6</u>	<u>227</u>
P 4 <u>15</u>	<u>41</u>	<u>9</u>	<u>352</u>	<u>15</u>	<u>83</u>	<u>9</u>	<u>392</u>
P 5 <u>20</u>	<u>41</u>	<u>12</u>	<u>496</u>	<u>20</u>	<u>83</u>	<u>12</u>	<u>524</u>
P 6 <u>25</u>	<u>41</u>	<u>15</u>	<u>601</u>	<u>25</u>	<u>83</u>	<u>15</u>	<u>613</u>
P 7 <u>30</u>	<u>41</u>	<u>18</u>	<u>682</u>	<u>30</u>	<u>83</u>	<u>18</u>	<u>673</u>
P 8 _____	_____	<u>21</u>	<u>742</u>	_____	_____	<u>21</u>	<u>733</u>
P 9 _____	_____	<u>24</u>	<u>785</u>	_____	_____	<u>24</u>	<u>774</u>
P10 _____	_____	<u>27</u>	<u>837</u>	_____	_____	<u>27</u>	<u>807</u>
P11 _____	_____	<u>30</u>	<u>862</u>	_____	_____	<u>30</u>	<u>839</u>
P12 _____	_____	<u>33</u>	<u>882</u>	_____	_____	<u>33</u>	<u>862</u>
P13 _____	_____	<u>36</u>	<u>897</u>	_____	_____	<u>36</u>	<u>882</u>
P14 _____	_____	<u>39</u>	<u>912</u>	_____	_____	<u>39</u>	<u>899</u>
P15 _____	_____	<u>42</u>	<u>927</u>	_____	_____	<u>42</u>	<u>914</u>
P16 _____	_____	<u>45</u>	<u>938</u>	_____	_____	<u>45</u>	<u>927</u>
P17 _____	_____	<u>48</u>	<u>951</u>	_____	_____	<u>48</u>	<u>938</u>
P18 _____	_____	<u>51</u>	<u>957</u>	_____	_____	<u>51</u>	<u>946</u>
P19 _____	_____	<u>54</u>	<u>966</u>	_____	_____	<u>54</u>	<u>957</u>
P20 _____	_____	<u>57</u>	<u>974</u>	_____	_____	<u>57</u>	<u>966</u>
		<u>60</u>	<u>981</u>			<u>60</u>	<u>972</u>

Flushed tool

JK #10553
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