



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Hummon Oil Company Lease & Well No. Bruce #1
 Elevation 1252 Kelly Bushing Formation Hoover Effective Pay - Ft. Ticket No. 21868
 Date 4-17-77 Sec. 12 Twp. 33S Range 4W County Sumner State Kansas
 Test Approved by Kenneth W. Johnson Western Representative Bill Baker

Formation Test No. 2 O.K. Misrun Interval Tested From 2472' to 2515' Total Depth 2515'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 2465 Ft. Size 6 3/4 Bottom Packer Depth 2472 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 43 Ft. Size 4 1/2 OD & DC Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2470 Ft. Clock No. 10167 Depth 2473 Ft. Clock No. 8474
 Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 2:43 P M
 Tool Open I.F.P. From 2:45 P M to 3:30 P M - Hr. 45 Min. From (B) 43 P.S.I. To (C) 44 P.S.I.
 Tool Closed I.C.I.P. From 3:30 P M to 4:30 P M 1 Hr. - Min (D) 738 P.S.I.
 Tool Open F.F.P. From 4:30 P M to 5:00 P M - Hr. 30 Min. From (E) 67 P.S.I. To (F) 66 P.S.I.
 Tool Closed F.C.I.P. From 5:00 P M to 6:00 P M 1 Hr. - Min. (G) 709 P.S.I.
 Initial Hydrostatic Pressure (A) 1049 P.S.I. Final Hydrostatic Pressure (H) 1035 P.S.I. Maximum Temp. 105

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow - Yes No Recovery Total Ft. 120' thin drilling mud, 840' gas in pipe.

Reversed Out - Yes No Mud Type salt Viscosity 42 Weight 9.6 Water Loss - cc. Chlorides 69,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe? 1945 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

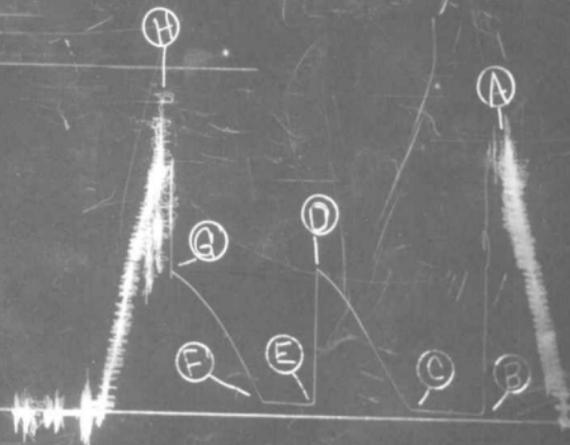
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 570 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 63 Ft.

Remarks:

Ticket # 21868

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3085



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Hummon Oil Company Lease & Well No. Bruce #1
 Elevation 1252 Kelly Bushing Formation Stalnaker Effective Pay - Ft. Ticket No. 21869
 Date 4-19-77 Sec. 12 Twp. 33S Range 4W County Sumner State Kansas
 Test Approved by Kenneth W. Johnson Western Representative Bill Baker

Formation Test No. 3 O.K. Misrun Interval Tested From 2964' to 3033' Total Depth 3033'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 2959 Ft. Size 6 3/4 Bottom Packer Depth 2964 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size
 Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 69 Ft. Size 4 1/2 OD & DC Surface Choke Size 1 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3000 Ft. Clock No. 10167 Depth 3003 Ft. Clock No. 8474
 Top Make Kuster Cap. 4500 No. 3085 ^{Inside} ~~Outside~~ Bottom Make Kuster Cap. 3200 No. 1561 ^{Inside} ~~Outside~~
 Below Straddle: Depth Rec. No. Clock No. ^{Inside} ~~Outside~~ Depth Ft. Rec. No. Clock No. ^{Inside} ~~Outside~~

Time Set Packer 1:13 A M
 Tool Open I.F.P. From 1:15 A.M. to 2:00 A.M. - Hr. 45 Min. From (B) 572 P.S.I. To (C) 765 P.S.I.
 Tool Closed I.C.I.P. From 2:00 A.M. to 3:00 A.M. 1 Hr. - Min (D) 1185 P.S.I.
 Tool Open F.F.P. From 3:00 A.M. to 3:45 A.M. - Hr. 45 Min. From (E) 811 P.S.I. To (F) 1046 P.S.I.
 Tool Closed F.C.I.P. From 3:45 A.M. to 4:45 A.M. 1 Hr. - Min. (G) 1187 P.S.I.
 Initial Hydrostatic Pressure (A) 1484 P.S.I. Final Hydrostatic Pressure (H) 1419 P.S.I. Maximum Temp. 118

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 7 minutes. See attached sheet for gas measurements.

Did Well Flow Yes No Recovery Total Ft. 2800' total recovery. 300' oil & gas cut mud, 2500' muddy gassy salt water.

Reversed Out Yes No Mud Type salt Viscosity 41 Weight 9.6 Water Loss cc. Chlorides 52,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR Gabbert - Jones, Inc. Length Drill Pipe? 2588 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 450 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 89 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 4-19-77

Test Ticket No. 21869

Recorder No. 3085 Capacity 4500 Location 3000 Ft

Clock No. 10167 Elevation 1252 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1484</u> P.S.I.	Open Tool	<u>1:13</u> AM	
B First Initial Flow Pressure	<u>572</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Min.
C First Final Flow Pressure	<u>765</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Min.
D Initial Closed-in Pressure	<u>1185</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Min.
E Second Initial Flow Pressure	<u>811</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Min.
F Second Final Flow Pressure	<u>1046</u> P.S.I.			
G Final Closed-in Pressure	<u>1187</u> P.S.I.			
H Final Hydrostatic Mud	<u>1419</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 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: 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>572</u>	<u>0</u>	<u>765</u>	<u>0</u>	<u>811</u>	<u>0</u>	<u>1046</u>
P 2 <u>5</u>	<u>662</u>	<u>3</u>	<u>1035</u>	<u>5</u>	<u>851</u>	<u>3</u>	<u>1136</u>
P 3 <u>10</u>	<u>830</u>	<u>6</u>	<u>1095</u>	<u>10</u>	<u>879</u>	<u>6</u>	<u>1152</u>
P 4 <u>15</u>	<u>965</u>	<u>9</u>	<u>1120</u>	<u>15</u>	<u>909</u>	<u>9</u>	<u>1160</u>
P 5 <u>20</u>	<u>553</u>	<u>12</u>	<u>1134</u>	<u>20</u>	<u>939</u>	<u>12</u>	<u>1166</u>
P 6 <u>25</u>	<u>519</u>	<u>15</u>	<u>1146</u>	<u>25</u>	<u>967</u>	<u>15</u>	<u>1171</u>
P 7 <u>30</u>	<u>546</u>	<u>18</u>	<u>1152</u>	<u>30</u>	<u>991</u>	<u>18</u>	<u>1173</u>
P 8 <u>35</u>	<u>653</u>	<u>21</u>	<u>1159</u>	<u>35</u>	<u>1009</u>	<u>21</u>	<u>1176</u>
P 9 <u>40</u>	<u>709</u>	<u>24</u>	<u>1164</u>	<u>40</u>	<u>1028</u>	<u>24</u>	<u>1179</u>
P10 <u>45</u>	<u>765</u>	<u>27</u>	<u>1169</u>	<u>45</u>	<u>1046</u>	<u>27</u>	<u>1180</u>
P11		<u>30</u>	<u>1171</u>			<u>30</u>	<u>1181</u>
P12		<u>33</u>	<u>1173</u>			<u>33</u>	<u>1181</u>
P13		<u>36</u>	<u>1176</u>			<u>36</u>	<u>1182</u>
P14		<u>39</u>	<u>1179</u>			<u>39</u>	<u>1182</u>
P15		<u>42</u>	<u>1181</u>			<u>42</u>	<u>1183</u>
P16		<u>45</u>	<u>1182</u>			<u>45</u>	<u>1183</u>
P17		<u>48</u>	<u>1182</u>			<u>48</u>	<u>1184</u>
P18		<u>51</u>	<u>1183</u>			<u>51</u>	<u>1184</u>
P19		<u>54</u>	<u>1184</u>			<u>54</u>	<u>1185</u>
P19		<u>57</u>	<u>1185</u>			<u>57</u>	<u>1186</u>
P20		<u>60</u>	<u>1185</u>			<u>60</u>	<u>1187</u>

Ticket # 21869

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