



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 "See remarks" Effective Pay - Ft. Ticket No. 21867
Date 4-16-77 Sec. 12 Twp. 32S Range 4W County Sumner State Kansas
Test Approved by Kenneth W. Johnson Western Representative Bill Baker
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 2041' to 2280' Total Depth 2280'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 2036 Ft. Size 6 3/4 Bottom Packer Depth 2041 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 239 Ft. Size 5 1/2 OD Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2033 Ft. Clock No. 8475 Depth 2036 Ft. Clock No. 8474
Top Make Kuster Cap. 3150 No. 1565 ~~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 2:13 P.M.
Tool Open I.F.P. From 2:15 P.M. to 3:00 P.M. - Hr. 45 Min. From (B) 129 P.S.I. To (C) 308 P.S.I.
Tool Closed I.C.I.P. From 3:00 P.M. to 4:00 P.M. 1 Hr. - Min (D) 859 P.S.I.
Tool Open F.F.P. From 4:00 P.M. to 4:45 P.M. - Hr. 45 Min. From (E) 358 P.S.I. To (F) 470 P.S.I.
Tool Closed F.C.I.P. From 4:45 P.M. to 5:45 P.M. 1 Hr. - Min. (G) 877 P.S.I.
Initial Hydrostatic Pressure (A) 1134 P.S.I. Final Hydrostatic Pressure (H) 1107 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 20 minutes. See attached sheet for gas measurements.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 1060' muddy gassy saltwater.

Reversed Out ☒ Yes ☐ No Mud Type salt Viscosity 52 Weight 10.5 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? 1890 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 390 Ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 259 Ft.

Remarks:

Tested three zones: White Cloud, Topeka, and Sevry.
Read outside recorder #1561.

WESTERN TESTING CO., INC.

Pressure Data

Date 4-16-77

Test Ticket No. 21867

Recorder No. 1561 Capacity 3200 Location 2036 Ft.

Clock No. 8474 Elevation 1252 Kelly Bushing Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1134</u> P.S.I.	Open Tool	<u>2:13</u> P M	
B First Initial Flow Pressure	<u>129</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>308</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>859</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>358</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
F Second Final Flow Pressure	<u>470</u> P.S.I.			
G Final Closed-in Pressure	<u>877</u> P.S.I.			
H Final Hydrostatic Mud	<u>1107</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>19</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>129</u>	<u>0</u>	<u>308</u>	<u>0</u>	<u>358</u>	<u>0</u>	<u>470</u>
P 2 <u>5</u>	<u>133</u>	<u>3</u>	<u>434</u>	<u>5</u>	<u>361</u>	<u>3</u>	<u>593</u>
P 3 <u>10</u>	<u>168</u>	<u>6</u>	<u>550</u>	<u>10</u>	<u>381</u>	<u>6</u>	<u>687</u>
P 4 <u>15</u>	<u>194</u>	<u>9</u>	<u>645</u>	<u>15</u>	<u>400</u>	<u>9</u>	<u>739</u>
P 5 <u>20</u>	<u>214</u>	<u>12</u>	<u>703</u>	<u>20</u>	<u>412</u>	<u>12</u>	<u>771</u>
P 6 <u>25</u>	<u>231</u>	<u>15</u>	<u>740</u>	<u>25</u>	<u>425</u>	<u>15</u>	<u>792</u>
P 7 <u>30</u>	<u>253</u>	<u>18</u>	<u>764</u>	<u>30</u>	<u>436</u>	<u>18</u>	<u>808</u>
P 8 <u>35</u>	<u>272</u>	<u>21</u>	<u>781</u>	<u>35</u>	<u>446</u>	<u>21</u>	<u>821</u>
P 9 <u>40</u>	<u>290</u>	<u>24</u>	<u>795</u>	<u>40</u>	<u>456</u>	<u>24</u>	<u>829</u>
P10 <u>45</u>	<u>308</u>	<u>27</u>	<u>806</u>	<u>45</u>	<u>470</u>	<u>27</u>	<u>839</u>
P11		<u>30</u>	<u>815</u>			<u>30</u>	<u>845</u>
P12		<u>33</u>	<u>823</u>			<u>33</u>	<u>850</u>
P13		<u>36</u>	<u>830</u>			<u>36</u>	<u>855</u>
P14		<u>39</u>	<u>835</u>			<u>39</u>	<u>860</u>
P15		<u>42</u>	<u>839</u>			<u>42</u>	<u>864</u>
P16		<u>45</u>	<u>845</u>			<u>45</u>	<u>867</u>
P17		<u>48</u>	<u>849</u>			<u>48</u>	<u>870</u>
P18		<u>51</u>	<u>852</u>			<u>51</u>	<u>873</u>
P19		<u>54</u>	<u>855</u>			<u>54</u>	<u>876</u>
P20		<u>57</u>	<u>857</u>			<u>57</u>	<u>877</u>
		<u>60</u>	<u>859</u>				



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

Date 4-16-77 Ticket 21867 Company Hummon Oil Company
Well Name and No. Bruce #1 Dst No. 1 Interval Tested 2041' - 2280'
County Sumner State Kansas Sec. 12 Twp. 32S Rg. 4W

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
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PRE FLOW

2:35 PM	20 min.	30 inches	of water		1/4" choke	9,200 C.F.P.D. Gas
2:40 PM	25 min.	2 PSIG			1/4" choke	12,700 C.F.P.D. Gas
2:45 PM	30 min.	2.5 PSIG			1/4" choke	14,300 C.F.P.D. Gas
2:55 PM	40 min.	3.5 PSIG			1/4" choke	17,100 C.F.P.D. Gas
3:00 PM	45 min.	4 PSIG			1/4" choke	18,500 C.F.P.D. Gas

SECOND FLOW

4:05 PM	50 min.	4.5 PSIG			1/4" choke	19,500 C.F.D.P. Gas
4:10 PM	55 min.	6 PSIG			1/4" choke	22,900 C.F.P.D. Gas
4:15 PM	60 min.	10.5 PSIG			1/4" choke	31,000 C.F.P.D. Gas
4:20 PM	65 min.	9 PSIG			1/4" choke	29,000 C.F.P.D. Gas
4:25 PM	70 min.	8.5 PSIG			1/4" choke	28,000 C.F.P.D. Gas
4:30 PM	75 min.	7.5 PSIG			1/4" choke	26,000 C.F.P.D. Gas
4:35 PM	80 min.	7 PSIG			1/4" choke	25,000 C.F.P.D. Gas
4:45 PM	90 min.	7 PSIG			1/4" choke	25,000 C.F.P.D. Gas

GAS BOTTLE

Serial No. 630 Date Bottle Filled 4-16-77 Date to be Invoiced 4-16-77

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.

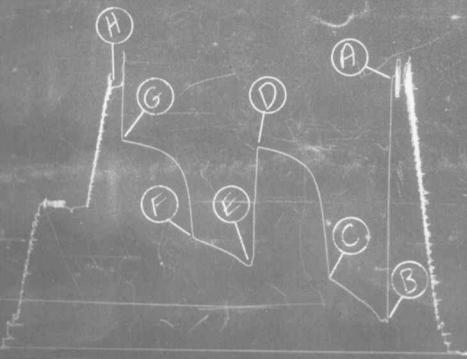
All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Hummon Oil Company

Authorized by Kenneth W. Johnson

TKT# 21867

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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 Inside Bottom Make Kuster Cap. 3200 No. 1561 Outside Inside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Inside Depth - Ft. Rec. No. - Clock No. - Outside 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:

WESTERN TESTING CO., INC.

Pressure Data

Date 4-17-77

Test Ticket No. 21868

Recorder No. 3085 Capacity 4500 Location 2470 Ft.

Clock No. 10167 Elevation 1252 Kelly Bushing Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1049 P.S.I.	Open Tool	2:43 P M	
B First Initial Flow Pressure	43 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	738 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	67 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	66 P.S.I.			
G Final Closed-in Pressure	709 P.S.I.			
H Final Hydrostatic Mud	1035 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</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 <u>0</u>	<u>43</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>66</u>
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>67</u>	<u>5</u>	<u>57</u>	<u>3</u>	<u>93</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>105</u>	<u>10</u>	<u>60</u>	<u>6</u>	<u>139</u>
P 4 <u>15</u>	<u>33</u>	<u>9</u>	<u>143</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>184</u>
P 5 <u>20</u>	<u>34</u>	<u>12</u>	<u>179</u>	<u>20</u>	<u>63</u>	<u>12</u>	<u>230</u>
P 6 <u>25</u>	<u>37</u>	<u>15</u>	<u>217</u>	<u>25</u>	<u>64</u>	<u>15</u>	<u>277</u>
P 7 <u>30</u>	<u>38</u>	<u>18</u>	<u>261</u>	<u>30</u>	<u>66</u>	<u>18</u>	<u>318</u>
P 8 <u>35</u>	<u>42</u>	<u>21</u>	<u>304</u>			<u>21</u>	<u>359</u>
P 9 <u>40</u>	<u>43</u>	<u>24</u>	<u>343</u>			<u>24</u>	<u>402</u>
P10 <u>45</u>	<u>44</u>	<u>27</u>	<u>387</u>			<u>27</u>	<u>439</u>
P11		<u>30</u>	<u>431</u>			<u>30</u>	<u>474</u>
P12		<u>33</u>	<u>476</u>			<u>33</u>	<u>509</u>
P13		<u>36</u>	<u>521</u>			<u>36</u>	<u>538</u>
P14		<u>39</u>	<u>560</u>			<u>39</u>	<u>567</u>
P15		<u>42</u>	<u>593</u>			<u>42</u>	<u>593</u>
P16		<u>45</u>	<u>625</u>			<u>45</u>	<u>618</u>
P17		<u>48</u>	<u>655</u>			<u>48</u>	<u>642</u>
P18		<u>51</u>	<u>679</u>			<u>51</u>	<u>662</u>
P19		<u>54</u>	<u>701</u>			<u>54</u>	<u>679</u>
P20		<u>57</u>	<u>723</u>			<u>57</u>	<u>696</u>
		<u>60</u>	<u>738</u>			<u>60</u>	<u>709</u>

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 1/8 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		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</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 <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>
P20		<u>57</u>	<u>1185</u>			<u>57</u>	<u>1186</u>
		<u>60</u>	<u>1185</u>			<u>60</u>	<u>1187</u>

Phone 316 262-5861

316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201**GAS FLOW REPORT**

Date 4-19-77 Ticket 21869 Company Hummon Oil Company
 Well Name and No. Bruce #1 Dst No. 3 Interval Tested 2964' - 3033'
 County Sumner State Kansas Sec. 12 Twp. 33S Rg. 4W

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
Open 1:15 AM Gas to surface in 7 minutes. PRE FLOW						
1:25 AM	10 min.	3 PSIG	½" choke			59,200 C.F.P.D. Gas
1:30 AM	15 min.	2 PSIG	½" choke			47,000 C.F.P.D. Gas
1:35 AM	20 min.	5 PSIG	¼" choke			20,700 C.F.P.D. Gas
1:45 AM	30 min.	6 PSIG	¼" choke			22,900 C.F.P.D. Gas
1:50 AM	35 min.	3 PSIG	¼" choke			15,700 C.F.P.D. Gas
2:00 AM	45 min.	4 PSIG	¼" choke			18,500 C.F.P.D. Gas

Open 3:00 AM SECOND FLOW						
3:05 AM	50 min.	3 PSIG	¼" choke			15,700 C.F.P.D. Gas
3:20 AM	65 min.	2 PSIG	¼" choke			12,700 C.F.P.D. Gas
3:25 AM	70 min.	4 PSIG	¼" choke			18,500 C.F.P.D. Gas
3:30 AM	75 min.	3 PSIG	¼" choke			15,700 C.F.P.D. Gas
3:45 AM	90 min.	2 PSIG	¼" choke			12,700 C.F.P.D. Gas

GAS BOTTLE

Serial No. _____ Date Bottle Filled 4-19-77 Date to be Invoiced 4-19-77

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.

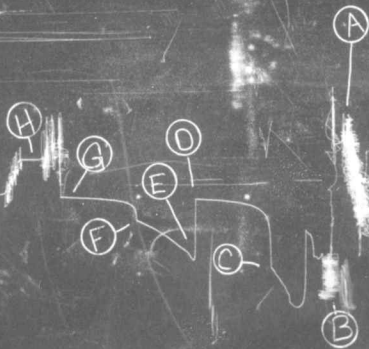
All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Hummon Oil Company

Authorized by Kenneth W. Johnson

Ticket # 21869

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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 Kansas City Effective Pay - Ft. Ticket No. 21987
Date 4-20-77 Sec. 12 Twp. 32S Range 4W County Sumner State Kansas
Test Approved by K.W. Johnson Western Representative Bill Baker
Formation Test No. 4 O.K. ☒ Misrun ☐ Interval Tested From 3394' to 3410' Total Depth 3410'
Size Main Hole 77/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3389 Ft. Size 6 3/4 Bottom Packer Depth 3394 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 16 Ft. Size 5 1/2 OD Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3403 Ft. Clock No. 6800 Depth 3406 Ft. Clock No. 8476
Top Make Kuster Cap. 4200 No. 1558 Inside ☒ Outside ☐ Bottom Make Kuster Cap. 3150 No. 1564 Inside ☐ Outside ☒
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐
Time Set Packer 1:58 P M
Tool Open I.F.P. From 2:00 PM. to 2:45 PM. - Hr. 45 Min. From (B) 97 P.S.I. To (C) 194 P.S.I.
Tool Closed I.C.I.P. From 2:45 PM. to 3:45 PM. 1 Hr. - Min (D) 1382 P.S.I.
Tool Open F.F.P. From 3:45 P M. to 4:30 PM. - Hr. 45 Min. From (E) 253 P.S.I. To (F) 333 P.S.I.
Tool Closed F.C.I.P. From 4:30 PM. to 5:30 PM. 1 Hr. - Min. (G) 1381 P.S.I.
Initial Hydrostatic Pressure (A) 1768 P.S.I. Final Hydrostatic Pressure (H) 1751 P.S.I. Maximum Temp. 124

INFORMATION

BLOW Strong blow throughout, decreasing on final flow period. Gas to surface in 55 minutes, 10 minutes into initial shut-in. Not enough volume to guage.
Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 720' total recovery. 120' oil & gas cut mud, 60' oil & gas cut muddy water, 540' saltwater.

Reversed Out - Yes ☒ No ☐ Mud Type salt Viscosity 42 Weight 9.7 Water Loss 19.0 cc. Chlorides 53,000 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. #12 Length Drill Pipe? 2990 Ft. I.D. Drill Pipe ☐ In. Tool Joint Size ☐ In.
Length Weight Pipe ☐ Ft. I.D. Weight Pipe ☐ In. Tool Joint Size ☐ In. Length Drill Collars 420 Ft. I.D. Drill Collars 2 1/4 In.
Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 36 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 4-20-77 Test Ticket No. 21987
 Recorder No. 1558 Capacity 4200 Location 3403 Ft.
 Clock No. 6800 Elevation 1252 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1768</u> P.S.I.	Open Tool	<u>1:58</u> P _M	
B First Initial Flow Pressure	<u>97</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>194</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1382</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>253</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>333</u> P.S.I.			
G Final Closed-in Pressure	<u>1381</u> P.S.I.			
H Final Hydrostatic Mud	<u>1751</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>2 0</u> Inc.		Breakdown: <u>9</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 <u>0</u>	<u>97</u>	<u>0</u>	<u>194</u>	<u>0</u>	<u>253</u>	<u>0</u>	<u>333</u>
P 2 <u>5</u>	<u>86</u>	<u>3</u>	<u>1111</u>	<u>5</u>	<u>240</u>	<u>3</u>	<u>1113</u>
P 3 <u>10</u>	<u>95</u>	<u>6</u>	<u>1286</u>	<u>10</u>	<u>247</u>	<u>6</u>	<u>1286</u>
P 4 <u>15</u>	<u>104</u>	<u>9</u>	<u>1320</u>	<u>15</u>	<u>259</u>	<u>9</u>	<u>1324</u>
P 5 <u>20</u>	<u>123</u>	<u>12</u>	<u>1339</u>	<u>20</u>	<u>272</u>	<u>12</u>	<u>1339</u>
P 6 <u>25</u>	<u>148</u>	<u>15</u>	<u>1349</u>	<u>25</u>	<u>287</u>	<u>15</u>	<u>1349</u>
P 7 <u>30</u>	<u>160</u>	<u>18</u>	<u>1355</u>	<u>30</u>	<u>300</u>	<u>18</u>	<u>1357</u>
P 8 <u>35</u>	<u>169</u>	<u>21</u>	<u>1362</u>	<u>35</u>	<u>310</u>	<u>21</u>	<u>1364</u>
P 9 <u>40</u>	<u>179</u>	<u>24</u>	<u>1366</u>	<u>40</u>	<u>321</u>	<u>24</u>	<u>1367</u>
P10 <u>45</u>	<u>194</u>	<u>27</u>	<u>1370</u>	<u>45</u>	<u>333</u>	<u>27</u>	<u>1369</u>
P11		<u>30</u>	<u>1372</u>			<u>30</u>	<u>1371</u>
P12		<u>33</u>	<u>1375</u>			<u>33</u>	<u>1372</u>
P13		<u>36</u>	<u>1377</u>			<u>36</u>	<u>1373</u>
P14		<u>39</u>	<u>1378</u>			<u>39</u>	<u>1374</u>
P15		<u>42</u>	<u>1380</u>			<u>42</u>	<u>1375</u>
P16		<u>45</u>	<u>1380</u>			<u>45</u>	<u>1376</u>
P17		<u>48</u>	<u>1381</u>			<u>48</u>	<u>1377</u>
P18		<u>51</u>	<u>1381</u>			<u>51</u>	<u>1378</u>
P19		<u>54</u>	<u>1382</u>			<u>54</u>	<u>1379</u>
P20		<u>57</u>	<u>1382</u>			<u>57</u>	<u>1380</u>
		<u>60</u>	<u>1382</u>			<u>60</u>	<u>1381</u>

Ticket # 21987

I

(H)

(A)

(G)

(D)

(F)

(E)

(C)

(B)

1558



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

Company Hummon Oil Company Lease & Well No. Bruce #1
Elevation 1252 Kelly Bush Formation Mississippi Effective Pay - Ft. Ticket No. 21871
Date 4-23-77 Sec. 12 Twp. 32S Range 4W County Sumner State Kansas
Test Approved by K.W. Johnson Western Representative Bill Baker
Formation Test No. 5 O.K. ☒ Misrun ☐ Interval Tested From 3946' to 3980' Total Depth 3980'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth 3941 Ft. Size 6 3/4 Bottom Packer Depth 3946 Ft. Size 6 3/4
Straddle ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 34 Ft. Size 5 1/2 OD Surface Choke Size 1 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3973 Ft. Clock No. 10167 Depth 3976 Ft. Clock No. 8476
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 4:43A. M
Tool Open I.F.P. From 4:45A M. to 5:30A M. - Hr. 45 Min. From (B) 148 P.S.I. To (C) 158 P.S.I.
Tool Closed I.C.I.P. From 5:30A M. to 6:30A M. - Hr. 60 Min (D) 1520 P.S.I.
Tool Open F.F.P. From 6:30A M. to 7:30A M. - Hr. 60 Min. From (E) 179 P.S.I. To (F) 148 P.S.I.
Tool Closed F.C.I.P. From 7:30A M. to 9:00A M. - Hr. 90 Min. (G) 1509 P.S.I.
Initial Hydrostatic Pressure (A) 2098 P.S.I. Final Hydrostatic Pressure (H) 2080 P.S.I. Maximum Temp. 134

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 3 minutes, see attached sheet for gas measurements.

Did Well Flow - Yes ☒ No ☐ Recovery Total Ft. 130' of gas cut mud.

Reversed Out - Yes ☒ No ☐ Mud Type Starch Viscosity 43 Weight 9.7 Water Loss 10.0 cc. Chlorides 57,000 PPM

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

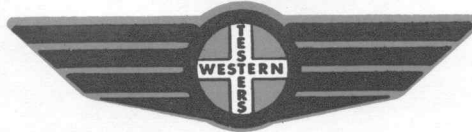
Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe? 3560 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 420 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 54 Ft.

Remarks:



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

GAS FLOW REPORT

Date 4-23-77 Ticket 21871 Company Hummon Oil Company
Well Name and No. Bruce #1 Dst No. 5 Interval Tested 3946' - 3980'
County Sumner State Kansas Sec. 12 Twp. 32S Rg. 4W

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						
Tool open at 4:45A.						
4:50A.	5 min.	10 PSIG		1" choke		472,000 C.F.P.D.
4:55A.	10 min.	12 PSIG		1" choke		526,000 C.F.P.D.
5:00A.	15 min.	14 PSIG		1" choke		577,000 C.F.P.D.
5:10A.	25 min.	15 PSIG		1" choke		603,000 C.F.P.D.
5:30A.	45 min.	15 PSIG		1" choke		603,000 C.F.P.D.
Gas to surface in 3 minutes.						

SECOND FLOW

tool open at 6:30A.						
6:35AM	50 min.	14 PSIG		1" choke		577,000 C.F.P.D.
6:40AM	55 min.	17 PSIG		1" choke		652,000 C.F.P.D.
6:45AM	60 min.	18 PSIG		1" choke		687,000 C.F.P.D.
6:50AM	65 min.	17 PSIG		1" choke		652,000 C.F.P.D.
7:15AM	90 min.	16 PSIG		1" choke		627,000 C.F.P.D.
7:30AM	105 min.	16 PSIG		1" choke		627,000 C.F.P.D.

GAS BOTTLE

Serial No. 613 Date Bottle Filled 4-23-77 Date to be Invoiced 4-23-77

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 Hummon Oil Company

Authorized by K.W. Johnson

WESTERN TESTING CO., INC. Pressure Data

Date 4-23-77 Test Ticket No. 21871
 Recorder No. 3085 Capacity 4500 Location 3973 Ft.
 Clock No. 10167 Elevation 1252 Kelly Bushing Well Temperature 134 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2098 P.S.I.	4:43A. M	
B First Initial Flow Pressure	148 P.S.I.	45 Mins.	450 Mins.
C First Final Flow Pressure	158 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1520 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	179 P.S.I.	90 Mins.	90 Mins.
F Second Final Flow Pressure	148 P.S.I.		
G Final Closed-in Pressure	1509 P.S.I.		
H Final Hydrostatic Mud	2080 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</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 0	148	0	158	0	179	0	148
P 2 5	148	3	1268	5	158	3	1245
P 3 10	155	6	1419	10	158	6	1339
P 4 15	157	9	1444	15	157	9	1370
P 5 20	157	12	1460	20	157	12	1386
P 6 25	158	15	1472	25	156	15	1398
P 7 30	158	18	1481	30	155	18	1409
P 8 35	158	21	1490	35	152	21	1416
P 9 40	158	24	1495	40	150	24	1421
P10 45	158	27	1500	45	150	27	1428
P11		30	1504	50	150	30	1435
P12		33	1509	55	149	33	1442
P13		36	1512	60	148	36	1451
P14		39	1513			39	1456
P15		42	1516			42	1460
P16		45	1517			45	1463
P17		48	1518			48	1469
P18		51	1518			51	1472
P19		54	1518			54	1477
P19		57	1519			57	1484
P20		60	1520			60	1488

WESTERN TESTING CO., INC.

Pressure Data

Date 4-23-77 Test Ticket No. 21871
 Recorder No. 3085 Capacity 4500 Location 3973 Ft.
 Clock No. 10167 Elevation 1252 Kelly Bushing Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2098 P.S.I.	Open Tool	4:43A. M	
B First Initial Flow Pressure	148 P.S.I.	First Flow Pressure	45 Mins.	450 Mins.
C First Final Flow Pressure	158 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1520 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	179 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	148 P.S.I.			
G Final Closed-in Pressure	1509 P.S.I.			
H Final Hydrostatic Mud	2080 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.

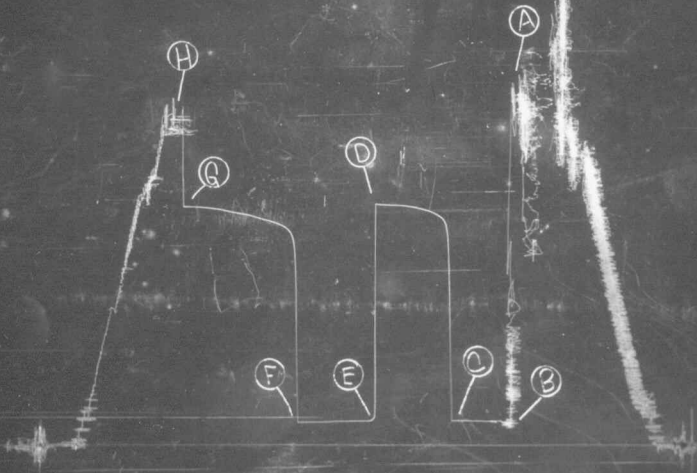
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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	1495
P 2						66	1498
P 3						69	1500
P 4						72	1502
P 5						75	1504
P 6						78	1505
P 7						81	1506
P 8						84	1507
P 9						87	1508
P10						90	1509
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Tkt # 21871

I.





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

Company Hummon Oil Company Lease & Well No. Bruce #1
Elevation 1252 Kelly Bush. Formation White Cloud-Stalnaker Effective Pay - Ft. Ticket No. 21872
Date 4-24-77 Sec. 12 Twp. 32S Range 4W County Sumner State Kansas
Test Approved by Byron E. Hummon, Jr. Western Representative Bill Baker
Formation Test No. 6 O.K. - Misrun X Interval Tested From 2964' to 3027' Total Depth 3980'
Size Main Hole 7 7/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. - B.T. - Damaged - Yes - No
Top Packer Depth 3034 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
Straddle Yes Conv. X B.T. - Damaged - Yes X No Packer Depth 3027 Ft. Size 6 3/4
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 63 Ft. Size 5 1/2 OD & DC Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2977 Ft. Clock No. 10167 Depth 2980 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 3032 Rec. No. 45 Clock No. 23 ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer M Misrun, packer seat failure
Tool Open I.F.P. From - M. to - M. Hr. - Min. From (B) - P.S.I. To (C) - P.S.I.
Tool Closed I.C.I.P. From - M. to - M. Hr. - Min (D) - P.S.I.
Tool Open F.F.P. From - M. to - M. Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.
Tool Closed F.C.I.P. From - M. to - M. Hr. - Min. (G) - P.S.I.
Initial Hydrostatic Pressure (A) 1594 P.S.I. Final Hydrostatic Pressure (H) 1587 P.S.I. Maximum Temp. -

INFORMATION

BLOW Strong blow throughout test. Top packer seat failure

Did Well Flow - Yes X No Recovery Total Ft. 520' of drilling mud.

Reversed Out - Yes X No Mud Type Starch Viscosity 42 Weight 9.6 Water Loss 12.4 cc. Chlorides 50,000 PPM

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

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

DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe? 2637 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

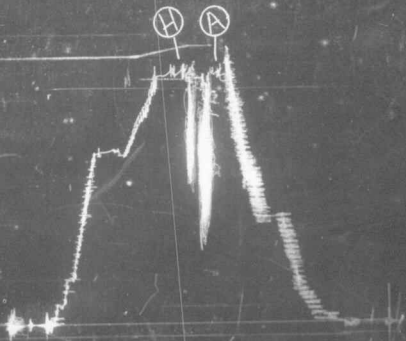
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 390 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 84 Ft.

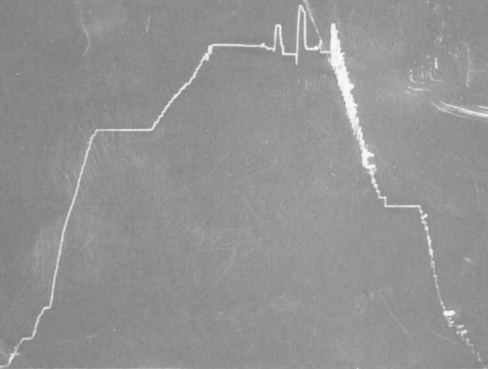
Remarks: Moved hook 2' lower, top packer seat failure.
Moved hook 2' higher, hook would not set
Moved hook 4' lower, hook would not set.

TK4#21872

I.



Tk+21872
Below Staddle





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

Company Hummon Oil Company Lease & Well No. Bruce #1
Elevation 1252 Kelly Bush. Formation Stalnaker Effective Pay - Ft. Ticket No. 21873
Date 4-24-77 Sec. 12 Twp. 32S Range 4W County Sumner State Kansas
Test Approved by Byron E. Hummon, Jr. Western Representative Bill Baker
Formation Test No. 7 O.K. - Misrun X Interval Tested From 3024' to 3029' Total Depth 3980'
Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No
Top Packer Depth 3019 Ft. Size 6 3/4 Bottom Packer Depth 3024 Ft. Size 6 3/4
Straddle Yes Conv. X B.T. - Damaged - Yes X No Packer Depth 3029 Ft. Size 6 3/4
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 5 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3013 Ft. Clock No. 10167 Depth 3016 Ft. Clock No. 8474
Top Make Kuster Cap. 4500 No. 3085 Inside Bottom Make Kuster Cap. 3200 No. 1561 Inside
Below Straddle: Depth 3034 Rec. No. 45 Clock No. 23 Inside Depth - Ft. Rec. No. - Clock No. - Outside
Time Set Packer 11:28 M
Tool Open I.F.P. From 11:30 M. to 11:45 M. - Hr. 15 Min. From (B) 54 P.S.I. To (C) 231 P.S.I.
Tool Closed I.C.I.P. From 11:45 M. to 12:00 M. - Hr. 15 Min (D) 1161 P.S.I.
Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.
Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.
Initial Hydrostatic Pressure (A) 1580 P.S.I. Final Hydrostatic Pressure (H) 1572 P.S.I. Maximum Temp. 120

INFORMATION

BLOW Weak blow increasing to a strong blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 510' of muddy saltwater.

Reversed Out - Yes X No Mud Type Starch Viscosity 42 Weight 9.6 Water Loss 12.4 cc. Chlorides 50,000 PPM

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? 2609 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 420 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 42 Ft.

Remarks: Hook would not set in correct zone, hook set 10' low.

WESTERN TESTING CO., INC. **Pressure Data**

Date 4-24-77 Test Ticket No. 21873
Recorder No. 3085 Capacity 4500 Location 3013 Ft.
Clock No. 10167 Elevation 1252 Kelly Bushing Well Temperature 120 °F

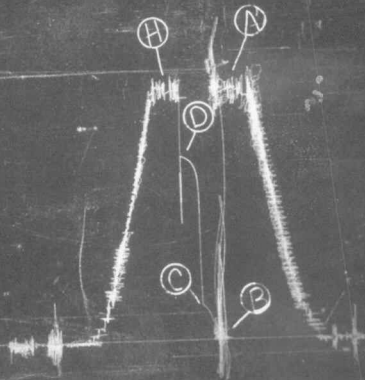
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1580</u> P.S.I.	Open Tool	<u>11:28</u> M	
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>231</u> P.S.I.	Initial Closed-in Pressure	<u>15</u> Mins.	<u>15</u> Mins.
D Initial Closed-in Pressure	<u>1161</u> P.S.I.	Second Flow Pressure	<u>-</u> Mins.	<u>-</u> Mins.
E Second Initial Flow Pressure	<u>Not taken</u> P.S.I.	Final Closed-in Pressure	<u>-</u> Mins.	<u>-</u> Mins.
F Second Final Flow Pressure	<u>Not taken</u> P.S.I.			
G Final Closed-in Pressure	<u>Not taken</u> P.S.I.			
H Final Hydrostatic Mud	<u>1572</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>5</u> Inc.		Breakdown: <u>-</u> Inc.		Breakdown: <u>-</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>-</u> mins. and a		of <u>-</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>-</u> Min.		final inc. of <u>-</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>54</u>	<u>0</u>	<u>231</u>				
P 2 <u>5</u>	<u>134</u>	<u>3</u>	<u>1069</u>				
P 3 <u>10</u>	<u>125</u>	<u>6</u>	<u>1118</u>				
P 4 <u>15</u>	<u>231</u>	<u>9</u>	<u>1139</u>				
P 5		<u>12</u>	<u>1152</u>				
P 6		<u>15</u>	<u>1161</u>				
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TH#21873

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Tkt# 21873
Below Straddle

