



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

Company Hummon Oil Company Lease & Well No. Muhlenbruch #1
 Elevation - Formation Stalnaker Effective Pay - Ft. Ticket No. 21957
 Date 6-6-77 Sec. 5 Twp. 33S Range 3W County Sumner State Kansas
 Test Approved by Byron E. Hummon, Jr. Western Representative Sam McClune
 Formation Test No. 1 O.K. Misrun Interval Tested From 2992' to 3018' Total Depth 3018'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 2982 Ft. Size 6 3/4 Bottom Packer Depth 2987 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 26 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 2997 Ft. Clock No. 6800 Depth 3002 Ft. Clock No. 6896
 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 12:30 P_M
 Tool Open I.F.P. From 12:31P M. to 12:35P M. - Hr. 04 Min. From (B) 633 P.S.I. To (C) 683 P.S.I.
 Tool Closed I.C.I.P. From 12:35 M. to 1:05 P_M - Hr. 30 Min (D) 1164 P.S.I.
 Tool Open F.F.P. From 1:05P M. to 1:15 P_M - Hr. 10 Min. From (E) 708 P.S.I. To (F) 798 P.S.I.
 Tool Closed F.C.I.P. From 1:15P M. to 1:45 P_M - Hr. 30 Min. (G) 1162 P.S.I.
 Initial Hydrostatic Pressure (A) 1538 P.S.I. Final Hydrostatic Pressure (H) 1525 P.S.I. Maximum Temp. 113

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 2 minutes. See attached sheet for gas measurements.
 Did Well Flow Yes No Recovery Total Fr. 90' gas cut mud.
 Reversed Out Yes No Mud Type starch Viscosity 47 Weight 9.2 Water Loss 16.8 cc. Chlorides 39,000 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? 2568 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 452 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4 1/2 In. Length D.S.T. Tool 46 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 6-6-77 Test Ticket No. 21957
 Recorder No. 1558 Capacity 4200 Location 2997 Ft.
 Clock No. 6800 Elevation - Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1538</u> P.S.I.	Open Tool	<u>12:30P</u> M	
B First Initial Flow Pressure	<u>633</u> P.S.I.	First Flow Pressure	<u>04</u> Mins.	<u>04</u> Mins.
C First Final Flow Pressure	<u>683</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1164</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>708</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>798</u> P.S.I.			
G Final Closed-in Pressure	<u>1162</u> P.S.I.			
H Final Hydrostatic Mud	<u>1525</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>0</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>10</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>4</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>633</u>	<u>0</u>	<u>683</u>	<u>0</u>	<u>708</u>	<u>0</u>	<u>798</u>
P 2 <u>4</u>	<u>683</u>	<u>3</u>	<u>1155</u>	<u>5</u>	<u>781</u>	<u>3</u>	<u>1146</u>
P 3 _____	_____	<u>6</u>	<u>1161</u>	<u>10</u>	<u>798</u>	<u>6</u>	<u>1152</u>
P 4 _____	_____	<u>9</u>	<u>1163</u>	_____	_____	<u>9</u>	<u>1157</u>
P 5 _____	_____	<u>12</u>	<u>1163</u>	_____	_____	<u>12</u>	<u>1159</u>
P 6 _____	_____	<u>15</u>	<u>1163</u>	_____	_____	<u>15</u>	<u>1160</u>
P 7 _____	_____	<u>18</u>	<u>1164</u>	_____	_____	<u>18</u>	<u>1160</u>
P 8 _____	_____	<u>21</u>	<u>1164</u>	_____	_____	<u>21</u>	<u>1161</u>
P 9 _____	_____	<u>24</u>	<u>1164</u>	_____	_____	<u>24</u>	<u>1161</u>
P10 _____	_____	<u>27</u>	<u>1164</u>	_____	_____	<u>27</u>	<u>1162</u>
P11 _____	_____	<u>30</u>	<u>1164</u>	_____	_____	<u>30</u>	<u>1162</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



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

GAS FLOW REPORT

Date 6-6-77 Ticket 21957 Company Hummon Oil Company
 Well Name and No. Muhlenbruch #1 Dst No. 1 Interval Tested 2992' - 3018'
 County Sumner State Kansas Sec. 5 Twp. 33S Rg. 3W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitor Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
						Gas to surface in 2 minutes.

SECOND FLOW						
1:10 PM	5 min.	30 inches of water				7,340,000 C.F.P.D.
1:15 PM	10 min.	40 inches of water				8,980,000 C.F.P.D.

GAS BOTTLE

Serial No. 211-7 Date Bottle Filled 6-6-77 Date to be Invoiced 6-6-77

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 Byron Hummon, Jr.

Ticket # 21957

I





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

Company Hummon Oil Company Lease & Well No. Muhlenbruch #1
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 21958
 Date 6-8-77 Sec. 5 Twp. 33S Range 3W County Sumner State Kansas
 Test Approved by Byron E. Hummon, Jr. Western Representative Sam McClune
 Formation Test No. 2 O.K. Misrun Interval Tested From 3308' to 3324' Total Depth 3324'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 3302 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
 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 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS — Depth 3313 Ft. Clock No. 6800 Depth 3319 Ft. Clock No. 6896
 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 11:23 A M
 Tool Open I.F.P. From 11:25 AM to 12:10 PM — Hr. 45 Min. From (B) 13 P.S.I. To (C) 61 P.S.I.
 Tool Closed I.C.I.P. From 12:10 M. to 12:55 PM — Hr. 45 Min (D) 1301 P.S.I.
 Tool Open F.F.P. From 12:55 P M. to 1:40 PM — Hr. 45 Min. From (E) 91 P.S.I. To (F) 122 P.S.I.
 Tool Closed F.C.I.P. From 1:40 PM to 2:25 PM — Hr. 45 Min. (G) 1284 P.S.I.
 Initial Hydrostatic Pressure (A) 1772 P.S.I. Final Hydrostatic Pressure (H) 1747 P.S.I. Maximum Temp. 113

INFORMATION

BLOW Very weak blow increasing to a strong blow throughout test.
 Did Well Flow - Yes No Recovery Total Fr. 60' (25% mud, 8% water, 25% oil, 42% gas), 60' - (5% mud, 45% water, 10% oil, 40% gas), 60' - (4% mud, 80% water, 16% oil), 60' - (20% mud, 60% water, 1% oil, 19% gas), 480' gas in pipe; 240' total fluid.
 Reversed Out - Yes No Mud Type starch Viscosity 42 Weight 9.7 Water Loss 12.4 cc. Chlorides 42,000 P.P.M.
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -
 Dual Packer no Did Packers Hold? yes Did Tool Plug? no Where? -
 DRILLING CONTRACTOR Gabbert - Jones, Inc. Length Drill Pipe? 2854 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 490 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 31 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 6-8-77 Test Ticket No. 21958
 Recorder No. 1558 Capacity 4200 Location 3313 Ft.
 Clock No. 6800 Elevation - Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1772 P.S.I.	Open Tool	11:23 AM	
B First Initial Flow Pressure	13 P.S.I.	First Flow Pressure	45 Mins.	40 Mins.
C First Final Flow Pressure	61 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1301 P.S.I.	Second Flow Pressure	45 Mins.	40 Mins.
E Second Initial Flow Pressure	91 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	122 P.S.I.			
G Final Closed-in Pressure	1284 P.S.I.			
H Final Hydrostatic Mud	1747 P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 15 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: 15 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	0	61	0	91	0	122
P 2	5	3	118	5	93	3	202
P 3	10	6	243	10	99	6	380
P 4	15	9	646	15	101	9	679
P 5	20	12	1069	20	105	12	996
P 6	25	15	1167	25	107	15	1132
P 7	30	18	1205	30	112	18	1184
P 8	35	21	1230	35	116	21	1209
P 9	40	24	1247	40	122	24	1229
P10		27	1261			27	1240
P11		30	1272			30	1249
P12		33	1280			33	1257
P13		36	1288			36	1263
P14		39	1295			39	1272
P15		42	1300			42	1278
P16		45	1301			45	1284
P17							
P18							
P19							
P20							

TKT# 21958

I,

(H)

(A)

(G)

(D)

(F)

(E)

(C)

(B)

1552



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

Company Hummon Oil Company Lease & Well No. Muhlenbruch #1
Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 21959
Date 6-9-77 Sec. 5 Twp. 33S Range 3W County Sumner State Kansas
Test Approved by Byron E. Hummon, Jr. Western Representative Sam McClune
Formation Test No. 3 O.K. Misrun Interval Tested From 3418' to 3428' Total Depth 3428'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 3418 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
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 10 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3420 Ft. Clock No. 6800 Depth 3425 Ft. Clock No. 6896
Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1569 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
Time Set Packer 9:01 M
Tool Open I.F.P. From 9:02 M. to 9:47 M. - Hr. 45 Min. From (B) 23 P.S.I. To (C) 154 P.S.I.
Tool Closed I.C.I.P. From 9:47 M. to 10:32 M. - Hr. 45 Min (D) 1368 P.S.I.
Tool Open F.F.P. From 10:32 M. to 11:17 M. - Hr. 45 Min. From (E) 173 P.S.I. To (F) 243 P.S.I.
Tool Closed F.C.I.P. From 11:17 M. to 11:35 M. - Hr. 09 Min. (G) 1163 P.S.I.
Initial Hydrostatic Pressure (A) 1924 P.S.I. Final Hydrostatic Pressure (H) 1886 P.S.I. Maximum Temp. 123

INFORMATION

BLOW _____
Did Well Flow - Yes No Recovery Total Ft. 112' gas - 38' oil & gas cut mud, 30' oil & gas cut water, 120' slightly oil & gas cut muddy water, 240' muddy water, 428' total fluid.

Reversed Out - Yes No Mud Type starch Viscosity 40 Weight 9.8 Water Loss 14.4 cc. Chlorides 41,000 P.P.M.

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

Dual Packer no Did Packers Hold? yes Did Tool Plug? no Where? -

DRILLING CONTRACTOR Gabbert-Jones, Inc. Length Drill Pipe? 2938 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size - In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 490 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 H90 In. Length D.S.T. Tool 25 Ft.

Remarks: Tried to shut tool on final closed in period. When table was released tool backlashed - Pulled at 11:35.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-9-77 Test Ticket No. 21959
 Recorder No. 1558 Capacity 4200 Location 3420 Ft.
 Clock No. 6800 Elevation - Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1924</u> P.S.I.	Open Tool	<u>9:01</u> M	
B First Initial Flow Pressure	<u>23</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>154</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1368</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>173</u> P.S.I.	Final Closed-in Pressure	<u>-</u> Mins.	<u>9</u> Mins.
F Second Final Flow Pressure	<u>243</u> P.S.I.			
G Final Closed-in Pressure	<u>1163</u> P.S.I.			
H Final Hydrostatic Mud	<u>1886</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>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>3</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>0</u>	<u>154</u>	<u>0</u>	<u>173</u>	<u>0</u>	<u>243</u>
P 2	<u>5</u>	<u>3</u>	<u>641</u>	<u>5</u>	<u>181</u>	<u>3</u>	<u>656</u>
P 3	<u>10</u>	<u>6</u>	<u>952</u>	<u>10</u>	<u>194</u>	<u>6</u>	<u>1023</u>
P 4	<u>15</u>	<u>9</u>	<u>1107</u>	<u>15</u>	<u>206</u>	<u>9</u>	<u>1163</u>
P 5	<u>20</u>	<u>12</u>	<u>1195</u>	<u>20</u>	<u>217</u>		
P 6	<u>25</u>	<u>15</u>	<u>1247</u>	<u>25</u>	<u>224</u>		
P 7	<u>30</u>	<u>18</u>	<u>1268</u>	<u>30</u>	<u>228</u>		
P 8	<u>35</u>	<u>21</u>	<u>1299</u>	<u>35</u>	<u>234</u>		
P 9	<u>40</u>	<u>24</u>	<u>1314</u>	<u>40</u>	<u>238</u>		
P10	<u>45</u>	<u>27</u>	<u>1328</u>	<u>45</u>	<u>243</u>		
P11		<u>30</u>	<u>1337</u>				
P12		<u>33</u>	<u>1345</u>				
P13		<u>36</u>	<u>1353</u>				
P14		<u>39</u>	<u>1359</u>				
P15		<u>42</u>	<u>1365</u>				
P16		<u>45</u>	<u>1369</u>				
P17							
P18							
P19							
P20							

TK#21959

I

H

A

D

G

F

E

L

B

1592



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

Company Hummon Oil Company Lease & Well No. Muhlenbruch #1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 21960
 Date 6-11-77 Sec. 5 Twp. 33S Range 3W County Sumner State Kansas
 Test Approved by Byron E. Hummon, Jr. Western Representative Sam McClune
 Formation Test No. 4 O.K. Misrun Interval Tested From 3977' to 3990' Total Depth 3990'
 Size Main Hole 7 7/8 Rat Hole - Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 3972 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
 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 13 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 3979 Ft. Clock No. 6800 Depth 3984 Ft. Clock No. 6896
 Top Make Kuster Cap. 4200 No. 1558 Inside Bottom Make Kuster Cap. 3150 No. 1564 Inside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Depth - Ft. Rec. No. - Clock No. - Inside

Time Set Packer 11:10P. M
 Tool Open I.F.P. From 11:12P M. to 11:42P M. - Hr. 30 Min. From (B) 27 P.S.I. To (C) 36 P.S.I.
 Tool Closed I.C.I.P. From 11:42P M. to 12:42A M. - Hr. 60 Min (D) 1601 P.S.I.
 Tool Open F.F.P. From 12:42A M. to 1:12A M. - Hr. 30 Min. From (E) 27 P.S.I. To (F) 24 P.S.I.
 Tool Closed F.C.I.P. From 1:12A M. to 2:12A M. - Hr. 60 Min. (G) 1534 P.S.I.
 Initial Hydrostatic Pressure (A) 2072 P.S.I. Final Hydrostatic Pressure (H) 2036 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow throughout test. Gas to surface 19 minutes on final flow period. See attached sheet for gas measurements.

Did Well Flow Yes - No Recovery Total Ft. 90' of gas cut mud.

Reversed Out Yes No Mud Type Starch Viscosity 36 Weight 9.6 Water Loss 16.4 cc. Chlorides 38,000 PPM

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

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

DRILLING CONTRACTOR Gabbert-Jones, Inc. (#12) length Drill Pipe? 3500 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 490 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 28 Ft.

Remarks:



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

GAS FLOW REPORT

Date 6-11-77 Ticket 21960 Company Hummon Oil Company
 Well Name and No. Muhlenbruch #1 Dst No. 4 Interval Tested 3977' - 3990'
 County Sumner State Kansas Sec. 5 Twp. 33S Rg. 3W

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						
11:37PM	25 min.	11 inches	of water		1/2" choke	20,900 C.F.P.D.
11:42PM	30 min.	18 inches	of water		1/2" choke	26,600 C.F.P.D.

SECOND FLOW						
12:52 AM	10 min.	6 inches	of water		3/4"choke	34,700 C.F.P.D.
1:02 AM	20 min.	5 inches	of water		3/4"choke	31,600 C.F.P.D.
1:12 AM	30 min.	5 inches	of water		3/4"choke	31,600 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled 6-11-77 Date to be Invoiced 6-11-77

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 Byron E. Hummon, Jr.

WESTERN TESTING CO., INC.

Pressure Data

Date 6-11-77 Test Ticket No. 21960
 Recorder No. 1558 Capacity 4200 Location 3979 Ft.
 Clock No. 6800 Elevation - Well Temperature 128 °F

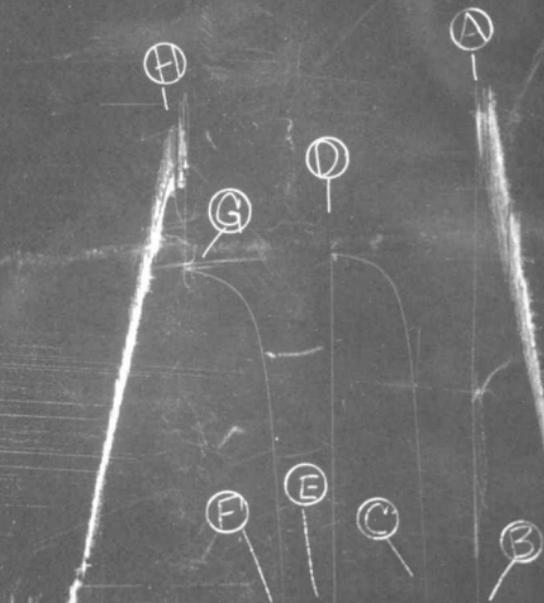
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2072	P.S.I.	11:10 P.M.	
B First Initial Flow Pressure	27	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	36	P.S.I.	60 Mins.	57 Mins.
D Initial Closed-in Pressure	1601	P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	27	P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	24	P.S.I.		
G Final Closed-in Pressure	1534	P.S.I.		
H Final Hydrostatic Mud	2036	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of	5 mins.	and a	final inc. of	0 Min.			
	of	3 mins.	and a	final inc. of	0 Min.			
	of	5 mins.	and a	final inc. of	0 Min.			
	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	27	0	36	0	27	0	24
P 2	5	23	3	470	5	17	3	409
P 3	10	25	6	866	10	19	6	787
P 4	15	27	9	1119	15	20	9	1015
P 5	20	32	12	1268	20	21	12	1155
P 6	25	34	15	1364	25	23	15	1257
P 7	30	36	18	1429	30	24	18	1318
P 8			21	1473			21	1366
P 9			24	1502			24	1399
P10			27	1523			27	1422
P11			30	1542			30	1445
P12			33	1555			33	1464
P13			36	1563			36	1477
P14			39	1572			39	1487
P15			42	1578			42	1497
P16			45	1584			45	1504
P17			48	1588			48	1513
P18			51	1593			51	1519
P19			54	1597			54	1525
P20			57	1601			57	1529
							60	1534

TK#21960

I.





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

Company Hummon Oil Company Lease & Well No. Muhlenbruch #1
 Elevation - Formation Mississippi Effective Pay - Fr. Ticker No. 21961
 Date 6-12-77 Sec. 5 Twp. 33S Range 3W Country Sumner State Kansas
 Test Approved by W.D. Berg Western Representative Sam McClune
 Formation Test No. 5 O.K. Misrun Interval Tested From 3990' to 4015' Total Depth 4015'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 3990 Ft. Size 6 3/4 Bottom Packer Depth - Ft. Size -
 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 25 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 3995 Ft. Clock No. 6800 Depth 4000 Ft. Clock No. 6896
 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 12:24P. M
 Tool Open I.F.P. From 12:25P M. to 1:10P M. - Hr. 45 Min. From (B) 48 P.S.I. To (C) 261 P.S.I.
 Tool Closed I.C.I.P. From 1:10P M. to 1:55P M. - Hr. 45 Min (D) 1629 P.S.I.
 Tool Open F.F.P. From 1:55P M. to 2:40P M. - Hr. 45 Min. From (E) 272 P.S.I. To (F) 515 P.S.I.
 Tool Closed F.C.I.P. From 2:40P M. to 3:25P M. - Hr. 45 Min. (G) 1612 P.S.I.
 Initial Hydrostatic Pressure (A) 2053 P.S.I. Final Hydrostatic Pressure (H) 2032 P.S.I. Maximum Temp. 128

INFORMATION

3LOW Strong blow throughout test. See attached sheet for gas measurements.
 Did Well Flow Yes - No Recovery Total Fr. 3510' of gas, 60' of gassy mud, 246' gassy slightly oil cut mud. 300' of total fluid recovery.
 Reversed Out - Yes No Mud Type Starch Viscosity 43 Weight 9.7 Water Loss 10.0 cc. Chlorides 35,000 PPM
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -
 Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -
 DRILLING CONTRACTOR Gabbert-Jones, Inc. (#12) Length Drill Pipe? 3485 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 490 Ft. I.D. Drill Collars 2.25 In.
 Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 40 Ft.
 Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 6-12-77 Test Ticket No. 21961
 Recorder No. 1558 Capacity 4200 Location 3995 Ft.
 Clock No. 6800 Elevation - Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2053 P.S.I.	Open Tool	12:24 PM	
B First Initial Flow Pressure	48 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	261 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1629 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	272 P.S.I.	Final Closed-in Pressure	45 Mins.	42 Mins.
F Second Final Flow Pressure	515 P.S.I.			
G Final Closed-in Pressure	1612 P.S.I.			
H Final Hydrostatic Mud	2032 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>14</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	48	0	261	0	272	0	515
P 2 5	65	3	835	5	306	3	1270
P 3 10	88	6	1276	10	348	6	1443
P 4 15	114	9	1532	15	375	9	1508
P 5 20	137	12	1561	20	403	12	1538
P 6 25	158	15	1578	25	426	15	1557
P 7 30	188	18	1584	30	449	18	1569
P 8 35	213	21	1595	35	472	21	1580
P 9 40	240	24	1599	40	498	24	1586
P10 45	261	27	1607	45	515	27	1595
P11		30	1612			30	1599
P12		33	1618			33	1603
P13		36	1620			36	1605
P14		39	1624			39	1610
P15		42	1626			42	1612
P16		45	1629				
P17							
P18							
P19							
P20							

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 6-12-77 Ticket 21961 Company Hummon Oil Company
Well Name and No. Muhlenbruch #1 Dst No. 5 Interval Tested 3990' - 4015'
County Sumner State Kansas Sec. 5 Twp. 33S Rg. 3W

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						

SECOND FLOW						
2:10PM	15 min.	18 inches	of water		1/8"choke	1670 C.F.P.D.
2:20PM	25 min.	12 inches	of water		1/8"choke	1830 C.F.P.D.
2:30PM	35 min.	13 inches	of water		1/8"choke	1910 C.F.P.D.
2:40PM	45 min.	15 inches	of water		1/8"choke	2050 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled 6-12-77 Date to be Invoiced 6-12-77

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 W.D. Berg

TK1#21961

I.

