



WESTERN TESTING CO., Inc.
P. O. Box 1599
WICHITA, KANSAS
67201

DATE 1-31-78

CHARGE TO

BMO, Inc.
1400 Metro Bank Bldg.
475 17th
Denver, Colo. 80202

Well Report No. 22673
Unit No.
District

FOR CUSTOMER'S USE ONLY

Register No.	Voucher No.
Terms Approved	Price Approved
Calculations Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

Your Order No.	Owner	Contractor		
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Well No. #1-31 Farm Barron County Cowley Sec. 31 Twp. 31N Range 8E

One drill stem test from 1922' to 1970' (Test #1)
Standby charge 2 hours

\$ 415.00

30.00

\$ 445.00

POSTED

Discount \$ 4.45	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No. 22673
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

22673

P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

Formation Layton Elevation 13806.2 Eff. Pay _____ Ft.District Augusta Date 1-31-78 Customer Order No. _____COMPANY NAME BMG

ADDRESS _____

LEASE AND WELL NO. Barton #1-31 COUNTY Cowley STATE KS Sec. 31 Twp. 31 Rge. 8EMail Inv. To Usual No. Copies Requested Usual

Co. Name _____ Address _____

Mail Charts To Usual No. Copies Requested Usual

Address _____

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 1922 to 1970 Total Depth 1970Size Main Hole 7 7/8 Rat Hole — Conv. ☒ B.T. ☐ Damaged ☒ Yes ☐ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ NoTop Packer Depth 1922 Ft. Size 5 1/2 Bottom Packer Depth — Ft. Size —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 48 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.RECORDERS Depth 1963 Ft. Clock No. 6866 Depth 1966 Ft. Clock No. 9102Top Make Kuster Cap. 3150 No. 1564 Inside ☒ Outside ☐ Bottom Make Kuster Cap. 3150 No. 1562 Inside ☐ Outside ☒Below Straddle: Depth — Rec. No. — Clock No. — Inside ☐ Outside ☐ Depth — Ft. Rec. No. — Clock No. — Inside ☐ Outside ☐Time Set Packer 4:55 10 M. — Hr. 30 Min. From (B) 31:55 P.S.I. To (C) 39:40 P.S.I.Tool Open I.F.P. From 5:00 M. to 5:30 M. — Hr. 30 Min. From (B) 196 P.S.I. To (C) 205 P.S.I.Tool Closed I.C.I.P. From 5:30 M. to 6:00 M. — Hr. 45 Min. From (D) 47:41 P.S.I. To (F) 47:51 P.S.I.Tool Open F.F.P. From 6:00 M. to 6:45 M. — Hr. 45 Min. From (E) 275 P.S.I. To (G) 287 P.S.I.Tool Closed F.C.I.P. From 6:45 M. to 7:30 M. — Hr. 45 Min. From (G) 275 P.S.I. To (H) 287 P.S.I.Initial Hydrostatic Pressure (A) 987 P.S.I. Final Hydrostatic Pressure (H) 979 P.S.I. Maximum Temp. 97.0

INFORMATION

BLOW Weak on IFP - Very Weak on FFP Flushed tool
25 min into FFP Very Weak Through remainder of FFP
Did Well Flow — Yes ☐ No ☐ Recovery Total Ft. 35' Drilling MudReversed Out — Yes ☒ No ☐ Mud Type chem Viscosity 39 Weight 7.4 Water Loss 16.00 cc. Chlorides 800EXTRA EQUIPMENT: Type Circ. Sub pin Safety Joint — Jars: Size — In. Make — Ser. No. —Dual Packers no Did Packers Hold? yes Did Tool Plug? no Where? —DRILLING CONTRACTOR B + M #14 Length Drill Pipe 1757 ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2 IFLength Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 150 ft. I.D. Drill Collars 2.25 In.Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 63 ft.Remarks Called @ 3:00 to be At rig @ 5:00 PM (1-30) Arrived @ location 5:00 PMWait on rig mud pump. Rig came off btm @ 11:00 PMCharged 2 hrs waiting times. Should have charged7 hours - 12 hours @ location before toolwas on btm and open. 4 hours too way thruCOMPANY TERMS for make up tool Read Recorder #1562

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

INVOICE SECTION

Open Hole Test \$ 415.00

Straddle Test \$ _____

Jars \$ _____

Selective Zone \$ _____

Safety Joint \$ _____

Misrun \$ _____

Evaluation \$ _____

Packer \$ _____

Circ. Sub. \$ _____

Stand by time \$ 30.00Total \$ 445.00Test Approved By Frank Morgan Western Representative Sam McCluneSignature of Customer or his
Authorized Representative

Operator's Time _____ Hrs.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-31-78 Test Ticket No. 22673
 Recorder No. 1562 Capacity 3150 Location 1966 Ft.
 Clock No. 9102 Elevation 1380 Ground Level Well Temperature 97 °F

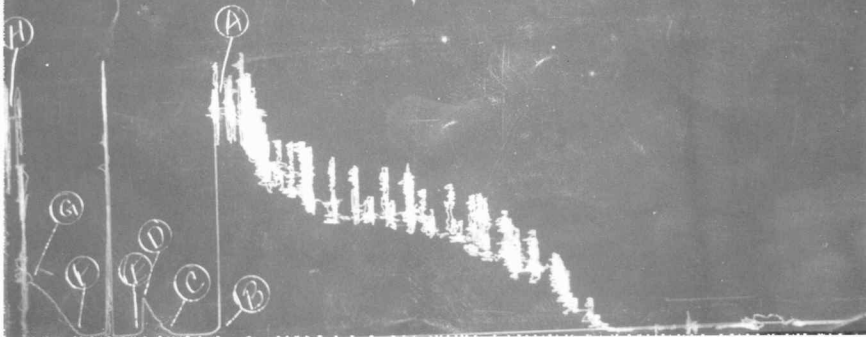
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>988</u>	P.S.I.	<u>4:55A</u>	M
B First Initial Flow Pressure	<u>55</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>40</u>	P.S.I.	<u>30</u>	Mins. <u>27</u> Mins.
D Initial Closed-in Pressure	<u>205</u>	P.S.I.	<u>45</u>	Mins. <u>45</u> Mins.
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>45</u>	Mins. <u>42</u> Mins.
F Second Final Flow Pressure	<u>51</u>	P.S.I.		
G Final Closed-in Pressure	<u>287</u>	P.S.I.		
H Final Hydrostatic Mud	<u>981</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>9</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 <u>0</u>	<u>55</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>51</u>
P 2 <u>5</u>	<u>42</u>	<u>3</u>	<u>47</u>	<u>5</u>	<u>49</u>	<u>3</u>	<u>57</u>
P 3 <u>10</u>	<u>39</u>	<u>6</u>	<u>60</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>68</u>
P 4 <u>15</u>	<u>39</u>	<u>9</u>	<u>69</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>86</u>
P 5 <u>20</u>	<u>39</u>	<u>12</u>	<u>83</u>	<u>20</u>	<u>44</u>	<u>12</u>	<u>100</u>
P 6 <u>25</u>	<u>39</u>	<u>15</u>	<u>111</u>	<u>25</u>	<u>Flushed tool</u>	<u>15</u>	<u>135</u>
P 7 <u>30</u>	<u>40</u>	<u>18</u>	<u>133</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>152</u>
P 8 <u>35</u>		<u>21</u>	<u>163</u>	<u>35</u>	<u>52</u>	<u>21</u>	<u>179</u>
P 9 <u>40</u>		<u>24</u>	<u>190</u>	<u>40</u>	<u>50</u>	<u>24</u>	<u>203</u>
P10 <u>45</u>		<u>27</u>	<u>205</u>	<u>45</u>	<u>51</u>	<u>27</u>	<u>221</u>
P11 <u>50</u>		<u>30</u>		<u>50</u>		<u>30</u>	<u>238</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>256</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	<u>271</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>280</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>287</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

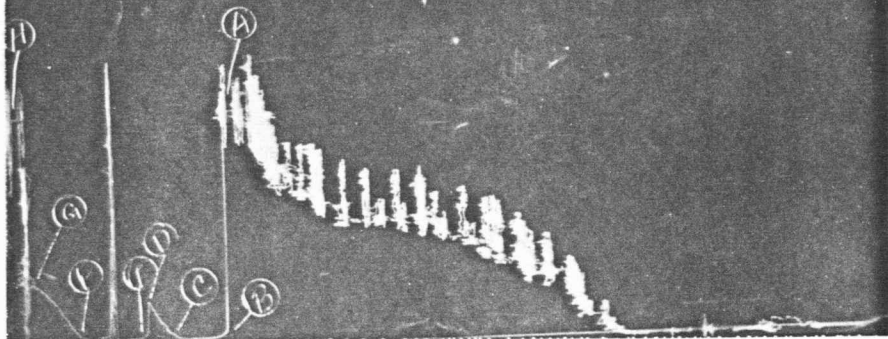
16991

TK4# 22673



TVI# 22673

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

Company BMG, Inc. Lease & Well No. Barron #1-31
Elevation 1380 Ground Level Formation Layton Effective Pay - Ft. Ticket No. 22673
Date 1-31-78 Sec. 31 Twp. 31S Range 8E County Cowley State Kansas
Test Approved by Frank Morgan Western Representative Sam McClune
Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 1922' to 1970' Total Depth 1970'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Top Packer Depth 1922 Ft. Size 5 Bottom Packer Depth - Ft. Size -
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 48 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 1963 Ft. Clock No. 6866 Depth 1966 Ft. Clock No. 9102
Top Make Kuster Cap. 3150 No. 1564 ~~Inside~~ Outside Bottom Make Kuster Cap. 3150 No. 1562 ~~Inside~~ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside
Time Set Packer 4:55A M
Tool Open I.F.P. From 5:00 M. to 5:30 M. - Hr. 30 Min. From (B) 55 P.S.I. To (C) 40 P.S.I.
Tool Closed I.C.I.P. From 5:30 M. to 6:00 M. - Hr. 30 Min (D) 205 P.S.I.
Tool Open F.F.P. From 6:00 M. to 6:45 M. - Hr. 45 Min. From (E) 61 P.S.I. To (F) 51 P.S.I.
Tool Closed F.C.I.P. From 6:45 M. to 7:30 M. - Hr. 45 Min. (G) 287 P.S.I.
Initial Hydrostatic Pressure (A) 988 P.S.I. Final Hydrostatic Pressure (H) 981 P.S.I. Maximum Temp. 97

INFORMATION

BLOW Weak on initial flow period. Very weak on final flow period. Flushed tool 25 minutes into final flow period. Very weak through remainder of final flow period.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 35' drilling mud.

Reversed Out ☐ Yes ☒ No Mud Type Chem Viscosity 39 Weight 9.4 Water Loss 16.00 cc. Chlorides 800 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 B & N #14 Length Drill Pipe? 1757 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2 IF In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 150 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 63 Ft.

Remarks: Read recorder #1562

WESTERN TESTING CO., INC.

Pressure Data

Date 1-31-78 Test Ticket No. 22673
 Recorder No. 1562 Capacity 3150 Location 1966 Ft.
 Clock No. 9102 Elevation 1380 Ground Level Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>988</u> P.S.I.	Open Tool	<u>4:55A</u> M	
B First Initial Flow Pressure	<u>55</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>40</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>205</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>61</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.			
G Final Closed-in Pressure	<u>287</u> P.S.I.			
H Final Hydrostatic Mud	<u>981</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>9</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 <u>0</u>	<u>55</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>51</u>
P 2 <u>5</u>	<u>42</u>	<u>3</u>	<u>47</u>	<u>5</u>	<u>49</u>	<u>3</u>	<u>57</u>
P 3 <u>10</u>	<u>39</u>	<u>6</u>	<u>60</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>68</u>
P 4 <u>15</u>	<u>39</u>	<u>9</u>	<u>69</u>	<u>15</u>	<u>45</u>	<u>9</u>	<u>86</u>
P 5 <u>20</u>	<u>39</u>	<u>12</u>	<u>83</u>	<u>20</u>	<u>44</u>	<u>12</u>	<u>110</u>
P 6 <u>25</u>	<u>39</u>	<u>15</u>	<u>111</u>	<u>25</u>	<u>flushed tool</u>	<u>15</u>	<u>135</u>
P 7 <u>30</u>	<u>40</u>	<u>18</u>	<u>133</u>	<u>30</u>	<u>57</u>	<u>18</u>	<u>152</u>
P 8		<u>21</u>	<u>163</u>	<u>35</u>	<u>52</u>	<u>21</u>	<u>179</u>
P 9		<u>24</u>	<u>190</u>	<u>40</u>	<u>50</u>	<u>24</u>	<u>203</u>
P10		<u>27</u>	<u>205</u>	<u>45</u>	<u>51</u>	<u>27</u>	<u>221</u>
P11						<u>30</u>	<u>238</u>
P12						<u>33</u>	<u>256</u>
P13						<u>36</u>	<u>271</u>
P14						<u>39</u>	<u>280</u>
P15						<u>42</u>	<u>287</u>
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., Inc.

P. O. Box 1599

WICHITA, KANSAS

67201

DATE 2-1-78

CHARGE TO

BMC, Inc.

1400 Metro Bank Bldg.

475 E 7th

Denver, Colo. 80202

Well Report No. 22674

Unit No.

District

FOR CUSTOMER'S USE ONLY

Register No.

Voucher No.

Terms Approved

Price Approved

Calculations Checked

Adjustments

Accounting Distribution

Audited

Final Approval

Your Order No.

Owner

Contractor

Well No.

#1-31

Farm

Barron

County

Cowley

Sec.

31

Twp.

31S

Range

8E

One drill stem test from 2254' to 3280' (Test #2)

\$ 415.00

POSTED

Discount	1% Discount Allowed on This Invoice If Paid by 20th of Following Month	Invoice No.
\$ 4.15		22674
IN REMITTING PLEASE GIVE OUR INVOICE NUMBER		

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

22674

P. O. BOX 793

PHONE 793-7903

GREAT BEND, KANSAS

Formation Cleveland Elevation 1380 GL Eff. Pay — Ft.

District

Augusta

Date

2-1-78Customer Order No. —

COMPANY NAME

BMG

ADDRESS

LEASE AND WELL NO. Barton # 1-31

COUNTY

Conley

STATE

KS

Sec.

31

Twp.

31

Rge.

8E

Mail Inv. To

Usual

No. Copies Requested

Usual

Co. Name

Address

Mail Charts To

Usual

No. Copies Requested

Usual

Address

Formation Test No. 2 O.K. ☒ Misrun ☒ Interval Tested From 2254 to 2280 Total Depth 2280
Size Main Hole 6 1/4 Rat Hole — Conv. ☒ B.T. — Damaged — Yes — No — Conv. — B.T. — Damaged — Yes — No —
Top Packer Depth 2254 Ft. Size 5" Bottom Packer Depth — Ft. Size —
Straddle — Conv. — B.T. — Damaged — Yes — No — Packer Depth — Ft. Size —
Tool Size 4500 Tool Joint Size 3 1/2 IF Anchor Length 26 Ft. Size 4500 Surface Choke Size 34 In. Bottom Choke Size 34 In.

RECORDERS Depth 2273 Ft. Clock No. 6866 Depth 2276 Ft. Clock No. 9102
Top Make Kuster Cap. 4500 No. 3085 Inside — Bottom Make Kuster Cap. 3150 No. 1562 Inside —
Below Straddle: Depth — Rec. No. — Clock No. — Outside — Depth — Ft. Rec. No. — Clock No. — Outside —

Time Set Packer 1:28 P.M.
Tool Open I.F.P. From 1:30 M. to 2:00 M. Hr. 30 Min. From (B) 11 41 P.S.I. To (C) 11 14 P.S.I.
Tool Closed I.C.I.P. From 2:00 M. to 2:30 M. Hr. 30 Min. (D) 11 P.S.I. To (E) 14 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. To (H) — P.S.I.
Initial Hydrostatic Pressure (A) 1140 P.S.I. Final Hydrostatic Pressure (H) 1117 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Very weak for 15 min - flushed tool very weak for 10 sec.
Did Well Flow — Yes ☒ No — Recovery Total Ft. 3' DM

Reversed Out — Yes ☒ No — Mud Type chem Viscosity 38 Weight 9.5 Water Loss 12.8 cc. Chlorides 1000
EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint — Jars: Size — In. Make — Ser. No. —
Dual Packers no Did Packers Hold? yes Did Tool Plug? no Where? —
DRILLING CONTRACTOR B+N #14 Length Drill Pipe 2089 ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2 IF In.
Length Weight Pipe — ft. I.D. Weight Pipe — In. Tool Joint Size — In. Length Drill Collars 150 ft. I.D. Drill Collars 2.25 In.
Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 41 ft.

Remarks

INVOICE SECTION

Open Hole Test	\$ <u>415.00</u>
Straddle Test	\$ <u>—</u>
Jars	\$ <u>—</u>
Selective Zone	\$ <u>—</u>
Safety Joint	\$ <u>—</u>
Misrun	\$ <u>—</u>
Evaluation	\$ <u>—</u>
Packer	\$ <u>—</u>
Circ. Sub.	\$ <u>—</u>
Total	\$ <u>415.00</u>

COMPANY TERMS

Western Testing Co., Inc., shall not be liable for damage of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By

Tommy
Signature of Customer or his
Authorized Representative

Western Representative

Sam McClure

Operator's Time

Hrs.

WESTERN TESTING CO., INC.

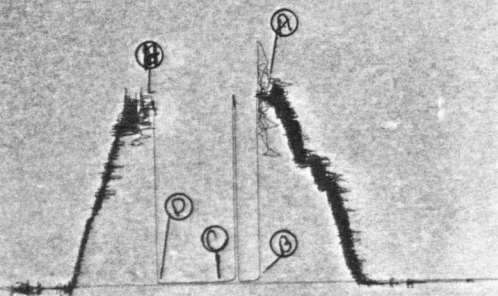
Pressure Data

Date 2-1-78 Test Ticket No. 22674
 Recorder No. 3085 Capacity 4500 Location 2273 Ft.
 Clock No. 6766 Elevation 1880 Ground Level Well Temperature 100 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1148 P.S.I. Open Tool M
 B First Initial Flow Pressure 41 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 14 P.S.I. Initial Closed-in Pressure 30 Mins. 45 Mins.
 D Initial Closed-in Pressure 14 P.S.I. Second Flow Pressure — Mins. — Mins.
 E Second Initial Flow Pressure no P.S.I. Final Closed-in Pressure — Mins. — Mins.
 F Second Final Flow Pressure — P.S.I.
 G Final Closed-in Pressure — P.S.I.
 H Final Hydrostatic Mud 1113 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>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>41</u>	<u>0</u>	<u>14</u>	<u>0</u>		<u>0</u>	
P 2 <u>5</u>	<u>17</u>	<u>3</u>		<u>5</u>		<u>3</u>	
P 3 <u>10</u>	<u>14</u>	<u>6</u>		<u>10</u>		<u>6</u>	
P 4 <u>15</u>	<u>12</u>	<u>9</u>		<u>15</u>		<u>9</u>	
P 5 <u>20</u>	<u>12</u>	<u>12</u>		<u>20</u>		<u>12</u>	
P 6 <u>25</u>	<u>17</u>	<u>15</u>		<u>25</u>		<u>15</u>	
P 7 <u>30</u>	<u>14</u>	<u>18</u>		<u>30</u>		<u>18</u>	
P 8 <u>35</u>		<u>21</u>		<u>35</u>		<u>21</u>	
P 9 <u>40</u>		<u>24</u>		<u>40</u>		<u>24</u>	
P 10 <u>45</u>		<u>27</u>		<u>45</u>		<u>27</u>	
P 11 <u>50</u>		<u>30</u>		<u>50</u>		<u>30</u>	
P 12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P 13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P 14		<u>39</u>		<u>65</u>		<u>39</u>	
P 15		<u>42</u>		<u>70</u>		<u>42</u>	
P 16		<u>45</u>		<u>75</u>		<u>45</u>	
P 17		<u>48</u>	<u>80</u>		<u>48</u>		
P 18		<u>51</u>	<u>85</u>		<u>51</u>		
P 19		<u>54</u>	<u>90</u>		<u>54</u>		
P 20		<u>57</u>			<u>57</u>		
		<u>60</u>			<u>60</u>		

TK+ # 22674
I.





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

Company BMG, Inc. Lease & Well No. Barron #1-31
Elevation 1380 Ground Level Formation Cleveland Effective Pay - Ft. Ticket No. 22674
Date 2-1-78 Sec. 31 Twp. 31S Range 8E County Cowley State Kansas
Test Approved by Frank Morgan Western Representative Sam McClune
Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 2254' to 2280' Total Depth 2280'
Size Main Hole 7 7/8 Cat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Top Packer Depth 2254 Ft. Size 5" Bottom Packer Depth - Ft. Size -
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 26 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 2273 Ft. Clock No. 6866 Depth 2276 Ft. Clock No. 9102
Top Make Kuster Cap. 4500 No. 3085 ☐ Inside ☒ Outside Bottom Make Kuster Cap. 3150 No. 1562 ☐ Inside ☒ Outside
Below Straddle: Depth - Rec. No. - Clock No. - ☐ Inside ☒ Outside Depth - Ft. Rec. No. - Clock No. - ☐ Inside ☒ Outside
Time Set Packer 1:28P M
Tool Open I.F.P. From 1:30 M. to 2:00 M. - Hr. 30 Min. From (B) 41 P.S.I. To (C) 14 P.S.I.
Tool Closed I.C.I.P. From 2:30 M. to 3:00 M. - Hr. 30 Min (D) 14 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) 1148 P.S.I. Final Hydrostatic Pressure (H) 1113 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Very weak for 15 minutes. Flushed tool, very weak for 10 seconds.

Did Well Flow ☐ Yes ☒ No Recovery Total Ft. 3' drilling mud.

Reversed Out ☐ Yes ☒ No Mud Type Chem Viscosity 38 Weight 9.5 Water Loss 12.8 cc. Chlorides 1,000 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 B & N Rig #14 Length Drill Pipe? 2089 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2 IF In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 150 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 41 Ft.

Remarks:

WESTERN TESTING CO., INC. Pressure Data

Date 2-1-78 Test Ticket No. 22674
Recorder No. 3085 Capacity 4500 Location 2273 Ft.
Clock No. 6766 Elevation 1880 Ground Level Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1148</u> P.S.I.	Open Tool	<u>1:28P</u> M	
B First Initial Flow Pressure	<u>41</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>14</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>14</u> P.S.I.	Second Flow Pressure	<u>-</u> Mins.	<u>-</u> Mins.
E Second Initial Flow Pressure	<u>-</u> P.S.I.	Final Closed-in Pressure	<u>-</u> Mins.	<u>-</u> Mins.
F Second Final Flow Pressure	<u>-</u> P.S.I.			
G Final Closed-in Pressure	<u>-</u> P.S.I.			
H Final Hydrostatic Mud	<u>1113</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>15</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>41</u>	<u>0</u>	<u>14</u>				
P 2 <u>5</u>	<u>17</u>	<u>3</u>	<u>14</u>				
P 3 <u>10</u>	<u>14</u>	<u>6</u>	<u>14</u>				
P 4 <u>15</u> flushed tool	<u>12</u>	<u>9</u>	<u>14</u>				
P 5 <u>20</u>	<u>29</u>	<u>12</u>	<u>14</u>				
P 6 <u>25</u>	<u>17</u>	<u>15</u>	<u>14</u>				
P 7 <u>30</u>	<u>14</u>	<u>18</u>	<u>14</u>				
P 8		<u>21</u>	<u>14</u>				
P 9		<u>24</u>	<u>14</u>				
P10		<u>27</u>	<u>14</u>				
P11		<u>30</u>	<u>14</u>				
P12		<u>33</u>	<u>14</u>				
P13		<u>36</u>	<u>14</u>				
P14		<u>39</u>	<u>14</u>				
P15		<u>42</u>	<u>14</u>				
P16		<u>45</u>	<u>14</u>				
P17							
P18							
P19							
P20							