



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 6127

P. O. BOX 1599 PHONE (316) 838-0601  
WICHITA, KANSAS 67201

Elevation 1823 KB Formation INDIAN Cove Eff. Pay \_\_\_\_\_ Ft.

District Pratt Date 6-27-80 Customer Order No. \_\_\_\_\_

COMPANY NAME F.R. HALL J.D. Hall

ADDRESS 6427 East Kellogg Wichita, Ks 67207

LEASE AND WELL NO. Lambert 1-30 COUNTY BARBER STATE KANSAS Sec 30 Twp 19S Rge 13W

Mail Invoice To SAME Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 2

Mail Charts To SAME Lawrence #1-2 Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 2736 ft. to 2781 ft. Total Depth 2781 ft.

Packer Depth 2731 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 2736 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 2740 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 2743 ft. Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor H-30 Inc Rig 11 Drill Collar Length 185 I. D. 2 1/4 in.

Mud Type Bemif Viscosity 30 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Weight 10 Water Loss NC cc. Drill Pipe Length 2531 I. D. 3.8 in.

Chlorides 104,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make NO Serial Number \_\_\_\_\_ Anchor Length 45 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/4 in.

Blow: Good to strong blow on both the initial & final flows - wouldn't maintain 2" flowline - no gas to surface

Recovered 120 ft. of drilling mud.

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Read chart 2606

On loc 10:45 P.M. Pickup tool 12:00 midnight key down tool 5:20 AM off loc 6:30 AM

Time Set Packer(s) 1/35 A.M. P.M. Time Started Off Bottom 3:35 A.M. P.M. Maximum Temperature 1106 °F

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1454 P.S.I.

Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 72 P.S.I. to (C) 72 P.S.I.

Initial Closed In Period \_\_\_\_\_ Minutes 30 (D) 312 P.S.I.

Final Flow Period \_\_\_\_\_ Minutes 30 (E) 83 P.S.I. to (F) 83 P.S.I.

Final Closed In Period \_\_\_\_\_ Minutes 30 (G) 644 P.S.I.

Final Hydrostatic Pressure \_\_\_\_\_ (H) 1402 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Carl Todd  
Signature of Customer or his authorized representative

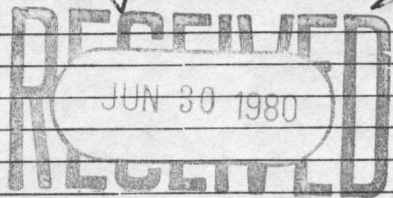
Western Representative Bob Sitt Thank you

Cannot find

FIELD INVOICE

Open Hole Test 550.00  
Misrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ \_\_\_\_\_  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ \_\_\_\_\_  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ \_\_\_\_\_  
Circ. Sub. \$ \_\_\_\_\_  
Mileage 25 mi 18.75  
Fluid Sampler \$ \_\_\_\_\_  
Extra Charts \$ \_\_\_\_\_

TOTAL 568.75



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

*J. G. Hill*

Date 6-27-80

Test Ticker No. 6127

Recorder No. 2606

Capacity 4150

Location 2740 Ft.

Clock No. -

Elevation 1823 KB

Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1448</u> P.S.I.	Open Tool	<u>1:35 a.m.</u>	
B First Initial Flow Pressure	<u>71</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>65</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>327</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
E Second Initial Flow Pressure	<u>94</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>77</u> P.S.I.			
G Final Closed-in Pressure	<u>664</u> P.S.I.			
H Final Hydrostatic Mud	<u>1402</u> P.S.I.			

**PRESSURE BREAKDOWN**

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

Initial Shut-In  
Breakdown: 10 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Second Flow Pressure  
Breakdown: 7 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

Final Shut-In  
Breakdown: 11 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>71</u>	0	<u>65</u>	0	<u>94</u>	0	<u>77</u>
P 2	<u>65</u>	3	<u>83</u>	5	<u>79</u>	3	<u>110</u>
P 3		6	<u>104</u>	10	<u>77</u>	6	<u>177</u>
P 4		9	<u>139</u>	15		9	<u>239</u>
P 5		12	<u>173</u>	20		12	<u>304</u>
P 6		15	<u>200</u>	25		15	<u>362</u>
P 7	<u>65</u>	18	<del>231</del>	30		18	<u>414</u>
P 8		21	<del>256</del>	35	<u>77</u>	21	<u>473</u>
P 9		24	<del>285</del>	40		24	<u>531</u>
P 10		27	<u>318</u>	45		27	<u>583</u>
P 11		30	<u>327</u>	50		30	<u>635</u>
P 12		33		55		33	<u>664</u>
P 13		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

Company F. G. Holl Lease & Well No. Lawrenz #1-2  
 Elevation 1823 Kelly Bushing Formation Indian Cave Effective Pay ----- Ft. Ticket No. 6127  
 Date 6/27/80 Sec. 2 Twp. 30S Range 13W County Barber State Kansas  
 Test Approved by Carl Todd Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 2736 ft. to 2781 ft. Total Depth 2781 ft.  
 Packer Depth 2731 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 2736 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 2740 ft. Recorder Number 2606 Cap. 4150  
 Bottom Recorder Depth (Outside) 2743 ft. Recorder Number 4332 Cap. 4200  
 Below Straddle Recorder Depth - ft. Recorder Number -- Cap. -

Drilling Contractor H-30, Inc. Drilling Rig #11 Drill Collar Length 185 I. D. 2 1/4 in.  
 Mud Type premix Viscosity 30 Weight Pipe Length - I. D. - in.  
 Weight 10 Water Loss NC cc. Drill Pipe Length 2531 I. D. 3.8 in.  
 Chlorides 104,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number -- Anchor Length 45 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Good to strong blow on both the initial and final flows wouldn't maintain two inch flow line. No gas to surface.

Recovered 120 ft. of drilling mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of     READ CHART #2606

Remarks:    

Time Set Packer(s) 1:35 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 3:35 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 106°  
 Initial Hydrostatic Pressure ..... (A) 1448 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 71 P.S.I. to (C) 65 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 327 P.S.I.  
 Final Flow Period ..... Minutes 35 (E) 94 P.S.I. to (F) 77 P.S.I.  
 Final Closed In Period ..... Minutes 33 (G) 664 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1402 P.S.I.

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 6-27-80 Test Ticket No. 6127  
 Recorder No. 2606 Capacity 4150 Location 2740 Ft.  
 Clock No. - Elevation 1832 KB Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1448	P.S.I.	1:35	A M
B First Initial Flow Pressure	71	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	65	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	327	P.S.I.	30	Mins. 35 Mins.
E Second Initial Flow Pressure	94	P.S.I.	30	Mins. 33 Mins.
F Second Final Flow Pressure	77	P.S.I.		
G Final Closed-in Pressure	664	P.S.I.		
H Final Hydrostatic Mud	1402	P.S.I.		

**PRESSURE BREAKDOWN**

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

**Initial Shut-In**  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

**Second Flow Pressure**  
 Breakdown: 7 Inc.  
 of 5 mins. and a  
 final inc. of 0 Min.

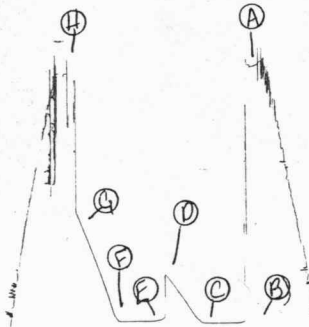
**Final Shut-In**  
 Breakdown: 11 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>71</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>94</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>65</u>	<u>3</u>	<u>83</u>	<u>5</u>	<u>79</u>	<u>3</u>	<u>110</u>
P 3 <u>10</u>	<u>65</u>	<u>6</u>	<u>104</u>	<u>10</u>	<u>77</u>	<u>6</u>	<u>177</u>
P 4 <u>15</u>	<u>65</u>	<u>9</u>	<u>139</u>	<u>15</u>	<u>77</u>	<u>9</u>	<u>239</u>
P 5 <u>20</u>	<u>65</u>	<u>12</u>	<u>173</u>	<u>20</u>	<u>77</u>	<u>12</u>	<u>304</u>
P 6 <u>25</u>	<u>65</u>	<u>15</u>	<u>200</u>	<u>25</u>	<u>77</u>	<u>15</u>	<u>362</u>
P 7 <u>30</u>	<u>65</u>	<u>18</u>	<u>231</u>	<u>30</u>	<u>77</u>	<u>18</u>	<u>414</u>
P 8		<u>21</u>	<u>256</u>	<u>35</u>	<u>77</u>	<u>21</u>	<u>473</u>
P 9		<u>24</u>	<u>285</u>			<u>24</u>	<u>531</u>
P10		<u>27</u>	<u>318</u>			<u>27</u>	<u>583</u>
P11		<u>30</u>	<u>327</u>			<u>30</u>	<u>635</u>
P12						<u>33</u>	<u>664</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2006 DST#1

Tkt#6127

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 6306

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 838-0601

Elevation 1823 K.B. Formation MISSISSIPPI Eff. Pay Ft.

District PRPT Date 6-30-80 Customer Order No.

COMPANY NAME F.G. HOLL COMPANY
ADDRESS 6427 E. KATHOGG, WICHITA, KS. 67202 2 30S 13W
LEASE AND WELL NO. LAWRENZ #1-2 COUNTY Barber STATE KS. Sec. 30 Twp. 19S Rge. 13W
Mail Invoice To Same Lawrence #1-2 No. Copies Requested 1
Co. Name Address No. Copies Requested 1
Mail Charts To Same #1-2 Address No. Copies Requested 1

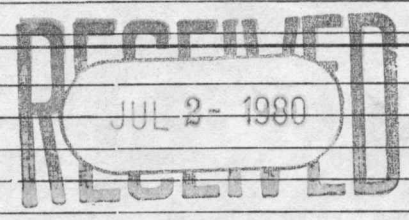
Formation Test No. #2 Interval Tested from 4298 ft. to 4365 ft. Total Depth 4365 ft.
Packer Depth 4293 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4298 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 4305 ft. Recorder Number 1566 Cap. 4300
Bottom Recorder Depth (Outside) 4308 ft. Recorder Number 3086 Cap. 4500
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor H-30 Drilling Inc. Ry # 11 Drill Collar Length I. D. in.
Mud Type DRISPAK Viscosity 39 Weight Pipe Length I. D. in.
Weight 9.6 Water Loss 15.2 cc. Drill Pipe Length 4277 I. D. 3.8 in.
Chlorides 43,000 P.P.M. Test Tool Length 21 ft. Tool Size 1 1/2 0.0 in.
Jars: Make NO Serial Number Anchor Length 67 ft. Size 5 1/2 0.0 in.
Did Well Flow? NO Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: WEAK Dying in both openings

Recovered 20 ft. of dirty mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of



Remarks: READ 3086 CHART

on loc @ 8:30 Took up @ 9:30 Took dn @ 3:00 OFF loc @ 4:00 PM
Time Set Packer(s) 11:55 A.M. Time Started Off Bottom 1:15 P.M. Maximum Temperature 123 F
Initial Hydrostatic Pressure (A) 2145 P.S.I.
Initial Flow Period Minutes 20 (B) 71 P.S.I. to (C) 201 P.S.I.
Initial Closed In Period Minutes 20 (D) 331 P.S.I.
Final Flow Period Minutes 20 (E) 23 P.S.I. to (F) 23 P.S.I.
Final Closed In Period Minutes 20 (G) 23 P.S.I.
Final Hydrostatic Pressure (H) 2187 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Carl Todd
Signature of Customer or his authorized representative

Western Representative [Signature] Thank you

FIELD INVOICE

Open Hole Test \$ 600.00
Miscellaneous \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage 30 x 1.75 \$ 52.50
Fluid Sampler \$
Extra Charts \$
TOTAL \$ 622.50

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

Date 6-30 Test Ticket No. 6306  
 Recorder No. 3086 Capacity 4500 Location 4308 Ft.  
 Clock No.      Elevation 1823 KB Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2247</u> P.S.I.	Open Tool	<u>11:55 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>68</u> <del>68</del> P.S.I.	First Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>210</u> <del>194</del> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>21</u> Mins.
D Initial Closed-in Pressure	<u>325</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>41</u> P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>18</u> Mins.
F Second Final Flow Pressure	<u>30</u> P.S.I.			
G Final Closed-in Pressure	<u>30</u> P.S.I.			
H Final Hydrostatic Mud	<u>2204</u> 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 <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>7</u> mins. and a final inc. of <u>0</u> Min.		of <u>4</u> mins. and a final inc. of <u>0</u> Min.		of <u>6</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>68</u>	0	<u>210</u>	0	<u>41</u>	0	<u>30</u>	
P 2	<u>126</u>	3	<u>229</u>	3	<u>30</u>	3		
P 3	<u>172</u>	6	<u>246</u>	6	<u>  </u>	6		
P 4	<u>194</u>	9	<u>263</u>	9	<u>  </u>	9		
P 5	<u>210</u>	12	<u>280</u>	12	<u>30</u>	12		
P 6		15	<u>294</u>	15		15		
P 7		18	<u>310</u>	18		18	<u>30</u>	
P 8		21	<u>325</u>	21		21		
P 9		24		24		24		
P 10		27		27		27		
P 11		30		30		30		
P 12		33		33		33		
P 13		36		36		36		
P 14		39		39		39		
P 15		42		42		42		
P 16		45		45		45		
P 17		48		48		48		
P 18		51		51		51		
P 19		54		54		54		
P 20		57		57		57		
		60		60		60		

Company F. G. Holl Lease & Well No. Lawrenz #1-2  
 Elevation 1823 Kelly Bushing Formation Mississippi Effective Pay ----- Ft. Ticket No. 6306  
 Date 6/30/80 Sec. 2 Twp. 30S Range 13W County Barber County, Kansas  
 Test Approved by Carl Todd Western Representative Roger Mounts

Formation Test No. 2 Interval Tested from 4298 ft. to 4365 ft. Total Depth 4365 ft.  
 Packer Depth 4293 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4298 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4305 ft. Recorder Number 1566 Cap. 4300  
 Bottom Recorder Depth (Outside) 4308 ft. Recorder Number 3086 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30 Drlg. Rig #11 Drill Collar Length - I. D. - in.  
 Mud Type drispac Viscosity 39 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 15.2 cc. Drill Pipe Length 4277 I. D. 3.8 in.  
 Chlorides 43,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.  
 Jars: Make No Serial Number - Anchor Length 67 ft. Size 5 1/2 OD in.  
 Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak, dying in both openings.

Recovered 20 ft. of drilling mud  
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of      
 Recovered     ft. of     READ CHART #3086

Remarks:    

Time Set Packer(s) 11:55 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 1:15 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 123°  
 Initial Hydrostatic Pressure ..... (A) 2247 P.S.I.  
 Initial Flow Period ..... Minutes 20 (B) 68 P.S.I. to (C) 210 P.S.I.  
 Initial Closed In Period ..... Minutes 21 (D) 325 P.S.I.  
 Final Flow Period ..... Minutes 20 (E) 41 P.S.I. to (F) 30 P.S.I.  
 Final Closed In Period ..... Minutes 18 (G) 30 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2204 P.S.I.

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

Date 6/30/80 Test Ticket No. 6306  
 Recorder No. 3086 Capacity 4500 Location 4308 Ft.  
 Clock No. -- Elevation 1823 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2247</u>	P.S.I.	<u>11:55A</u>	<u>M</u>
B First Initial Flow Pressure	<u>68</u>	P.S.I.	<u>20</u>	<u>20</u> Mins.
C First Final Flow Pressure	<u>210</u>	P.S.I.	<u>20</u>	<u>21</u> Mins.
D Initial Closed-in Pressure	<u>325</u>	P.S.I.	<u>20</u>	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	<u>20</u>	<u>18</u> Mins.
F Second Final Flow Pressure	<u>30</u>	P.S.I.		
G Final Closed-in Pressure	<u>30</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2204</u>	P.S.I.		

**PRESSURE BREAKDOWN**

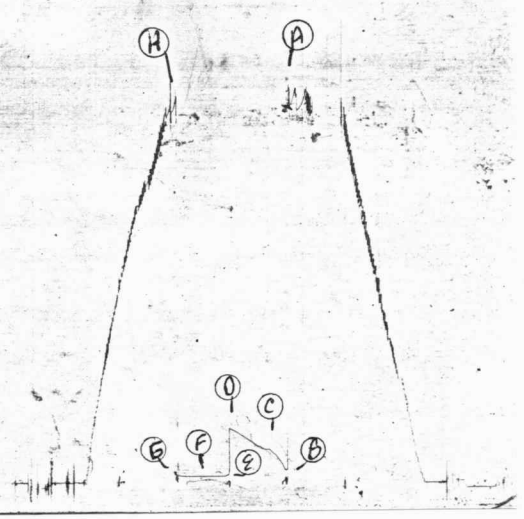
<b>First Flow Pressure</b> Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>7</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>6</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>68</u>	<u>0</u>	<u>210</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>30</u>
P 2 <u>5</u>	<u>126</u>	<u>3</u>	<u>229</u>	<u>5</u>	<u>30</u>	<u>3</u>	<u>30</u>
P 3 <u>10</u>	<u>174</u>	<u>6</u>	<u>246</u>	<u>10</u>	<u>30</u>	<u>6</u>	<u>30</u>
P 4 <u>15</u>	<u>194</u>	<u>9</u>	<u>263</u>	<u>15</u>	<u>30</u>	<u>9</u>	<u>30</u>
P 5 <u>20</u>	<u>210</u>	<u>12</u>	<u>280</u>	<u>20</u>	<u>30</u>	<u>12</u>	<u>30</u>
P 6		<u>15</u>	<u>294</u>			<u>15</u>	<u>30</u>
P 7		<u>18</u>	<u>310</u>			<u>18</u>	<u>30</u>
P 8		<u>21</u>	<u>325</u>				
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

IR# 6306

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WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 6681

P. O. BOX 1599 WICHITA, KANSAS 67201  
PHONE (316) 838-0601

Elevation 1823 KB Formation Viola Eff. Pay Ft.

District PRAT Date 7-1-80 Customer Order No.

COMPANY NAME F.C. Hall  
ADDRESS 6427 East Kellogg Wichita 67207  
LEASE AND WELL NO. LAURENZ 1-2 COUNTY BARBER STATE K Sec. 2 Twp 30S Rge 13W  
Mail Invoice To Same Co. Name Address No. Copies Requested Reg  
Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 3 Interval Tested from 4474 ft. to 4540 ft. Total Depth 4540 ft.  
Packer Depth 4469 ft. Size 6 3/4 in. Packer Depth ft. Size in.  
Packer Depth 4474 ft. Size 6 3/4 in. Packer Depth ft. Size in.  
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4493 ft. Recorder Number 2604 Cap. 4150  
Bottom Recorder Depth (Outside) 4496 ft. Recorder Number 6246 Cap. 5200  
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor H-30 #11 Drill Collar Length 150 I. D. 2.2 in.  
Mud Type DRIS pac Viscosity 46 Weight Pipe Length I. D. in.  
Weight 9.6 Water Loss 18.4 cc. Drill Pipe Length 4304 I. D. 3.8 in.  
Chlorides 40,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 O.D. in.  
Jars: Make Serial Number Anchor Length 32 3/4 ft. Size 5 1/2 O.D. in.  
Did Well Flow? No Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: STRONG thru Both Flow Periods

Recovered 150 ft. of Gas & water cut DRly mud - Chlorides 58,000 p.p.m.  
Recovered ft. of Few spots oil  
Recovered ft. of  
Recovered ft. of  
Recovered ft. of  
Remarks:

ON Location 10:15 A.M. - pick up tool 12:00 p.m. - OFF location 7:30 p.m.

Time Set Packer(s)	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
1:35	P.M.	4:05	P.M.	136
Initial Hydrostatic Pressure	(A)	2432	P.S.I.	
Initial Flow Period	Minutes	30	(B) 63	P.S.I. to (C) 74 P.S.I.
Initial Closed In Period	Minutes	30	(D) 826	P.S.I.
Final Flow Period	Minutes	60	(E) 95	P.S.I. to (F) 106 P.S.I.
Final Closed In Period	Minutes	30	(G) 522	P.S.I.
Final Hydrostatic Pressure	(H)	2348	P.S.I.	

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of 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 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Carl Todd  
Signature of Customer or his authorized representative  
Western Representative Dave  
Thank you  
RECORDED  
JUL 3 - 1980

FIELD INVOICE

Open Hole Test	\$ 2600.00
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	152.25 \$ 11.25
Fluid Sampler	\$
Extra Charts	\$
TOTAL	\$ 611.25

WESTERN TESTING CO., INC.

Pressure Data

Date 7-1-80 Test Ticket No. 6681  
 Recorder No. 2604 Capacity 4150 Location 4493 Ft.  
 Clock No. — Elevation 1823 KB Well Temperature 136 °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2441</u>	P.S.I.		<u>1:35 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>89</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>85</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>853</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>117</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>112</u>	P.S.I.			
G Final Closed-in Pressure	<u>542</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2365</u>	P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In  
 Breakdown: 10 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: 10 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	<u>89</u>	0	<u>85</u>	0	<u>117</u>	0	<u>112</u>
P 2 5	<u>80</u>	3	<u>117</u>	5	<u>112</u>	3	<u>134</u>
P 3 10	<u>74</u>	6	<u>166</u>	10	<u>109</u>	6	<u>173</u>
P 4 15	<u>78</u>	9	<u>247</u>	15	<u>110</u>	9	<u>219</u>
P 5 20	<u>81</u>	12	<u>344</u>	20	↑	12	<u>286</u>
P 6 25	<u>83</u>	15	<u>447</u>	25	↓	15	<u>327</u>
P 7 30	<u>85</u>	18	<u>538</u>	30	↓	18	<u>384</u>
P 8 35		21	<u>648</u>	35	<u>110</u>	21	<u>425</u>
P 9 40		24	<u>740</u>	40	<u>112</u>	24	<u>470</u>
P 10 45		27	<u>822</u>	45	↑	27	<u>517</u>
P 11 50		30	<u>853</u>	50	↑	30	<u>542</u>
P 12 55		33		55	↓	33	
P 13 60		36		60	<u>112</u>	36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

Company F. G. Holl Lease & Well No. Lawrenz #1-2  
 Elevation 1823 Kelly Bushing Formation Viola Effective Pay ----- Ft. Ticket No. 6681  
 Date 7/1/80 Sec. 2 Twp. 30S Range 13W County Barber State Kansas  
 Test Approved by Carl Todd Western Representative Dave Sloan

Formation Test No. 3 Interval Tested from 4474 ft. to 4540 ft. Total Depth 4540 ft.  
 Packer Depth 4469 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 4474 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -  
 Top Recorder Depth (Inside) 4493 ft. Recorder Number 2604 Cap. 4150  
 Bottom Recorder Depth (Outside) 4496 ft. Recorder Number 6246 Cap. 5200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor H-30 Drilling Rig #11 Drill Collar Length 150 I. D. 2.2 in.  
 Mud Type drispac Viscosity 46 Weight Pipe Length - I. D. - in.  
 Weight 9.6 Water Loss 18.4 cc. Drill Pipe Length 4304 I. D. 3.8 in.  
 Chlorides 40,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 32 D.C. + 34 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong through both flow periods.

Recovered 150 ft. of gas and water dut drilling mud - Chlorides 58,000 ppm  
 Recovered - ft. of Few spots oil  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 1:35 A.M. Time Started Off Bottom 4:05 A.M. Maximum Temperature 136°  
P.M. P.M.  
 Initial Hydrostatic Pressure ..... (A) 2441 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 89 P.S.I. to (C) 85 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 853 P.S.I.  
 Final Flow Period ..... Minutes 60 (E) 117 P.S.I. to (F) 112 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 542 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2365 P.S.I.

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

Date 7/1/80 Test Ticket No. 6681  
 Recorder No. 2604 Capacity 4150 Location 4493 Ft.  
 Clock No. - Elevation 1823 Kelly Bushing Well Temperature 136 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2441</u> P.S.I.	Open Tool	<u>1:35P</u> M	
B First Initial Flow Pressure	<u>89</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>85</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>853</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>117</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>112</u> P.S.I.			
G Final Closed-in Pressure	<u>542</u> P.S.I.			
H Final Hydrostatic Mud	<u>2365</u> P.S.I.			

**PRESSURE BREAKDOWN**

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

**Initial Shut-In**  
 Breakdown: 10 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: 10 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>89</u>	<u>0</u>	<u>85</u>	<u>0</u>	<u>117</u>	<u>0</u>	<u>112</u>
P 2 <u>5</u>	<u>80</u>	<u>3</u>	<u>117</u>	<u>5</u>	<u>112</u>	<u>3</u>	<u>134</u>
P 3 <u>10</u>	<u>74</u>	<u>6</u>	<u>166</u>	<u>10</u>	<u>109</u>	<u>6</u>	<u>173</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>247</u>	<u>15</u>	<u>110</u>	<u>9</u>	<u>219</u>
P 5 <u>20</u>	<u>81</u>	<u>12</u>	<u>344</u>	<u>20</u>	<u>110</u>	<u>12</u>	<u>286</u>
P 6 <u>25</u>	<u>83</u>	<u>15</u>	<u>447</u>	<u>25</u>	<u>110</u>	<u>15</u>	<u>327</u>
P 7 <u>30</u>	<u>85</u>	<u>18</u>	<u>538</u>	<u>30</u>	<u>110</u>	<u>18</u>	<u>384</u>
P 8		<u>21</u>	<u>648</u>	<u>35</u>	<u>110</u>	<u>21</u>	<u>425</u>
P 9		<u>24</u>	<u>740</u>	<u>40</u>	<u>112</u>	<u>24</u>	<u>470</u>
P10		<u>27</u>	<u>822</u>	<u>45</u>	<u>112</u>	<u>27</u>	<u>517</u>
P11		<u>30</u>	<u>853</u>	<u>50</u>	<u>112</u>	<u>30</u>	<u>542</u>
P12				<u>55</u>	<u>112</u>		
P13				<u>60</u>	<u>112</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

2604 X

DST # 6681

J

F. Holl  
LAUREN 2.1  
DST 3

