



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 15890

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation Indian Cave Eff. Pay _____ Ft.

District Pratt Date 4-25-82 Customer Order No. _____

COMPANY NAME F.G. Holl 6427 East Kellogg

ADDRESS Wichita KS. 67207

LEASE AND WELL NO. L. Young 1-18 COUNTY Barber STATE KS Sec. 18 Twp 30S Rge 12W

Mail Invoice To Same No. Copies Requested Reg

Mail Charts To Same Co. Name L. Young #1-18 Address _____ No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 2695 ft. to 2750 ft. Total Depth 2750 ft.

Packer Depth 2690 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2695 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2698 ft. Recorder Number 1565 Cap. 4500

Bottom Recorder Depth (Outside) 2701 ft. Recorder Number 1560 Cap. 4500

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Sterling #2 Drill Collar Length 300 I. D. 2.2 in.

Mud Type Drispec Viscosity 30 Weight Pipe Length 480 I. D. 3.2 in.

Weight 9.6 Water Loss N/C cc. Drill Pipe Length 1886 I. D. 3.8 in.

Chlorides 53,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 405 Anchor Length 55 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out YES 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 XH in.

Blow: Fair Building to Strong Strong throughout the final flow period

Recovered 1200 ft. of Water Chlorides 112,000 ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time On Location 2:30 AM Time Pick Up Tool 3:15 AM Time Off Location 10:00 AM

Time Set Packer(s) 4:55 AM Time Started Off Bottom 7:25 AM Maximum Temperature 104°

Initial Hydrostatic Pressure _____ (A) 1347 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 99 P.S.I. to (C) 346 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 977 P.S.I.

Final Flow Period _____ Minutes 60 (E) 371 P.S.I. to (F) 581 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 977 P.S.I.

Final Hydrostatic Pressure _____ (H) 1347 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 William J. Stobbe
Signature of Customer or his authorized representative

Western Representative W. J. Stobbe

Thank you

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ _____
Safety Joint \$ 65.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ 25.00
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 1000.00

WESTERN TESTING CO., INC.

Pressure Data

Date 4-25-82 Test Ticket No. 15890
 Recorder No. 1565 Capacity 4900 Location 2698 Ft.
 Clock No. Elevation Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1342</u>	P.S.I.	<u>4:55</u> M	
B First Initial Flow Pressure	<u>98</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>339</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>979</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>310</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>574</u>	P.S.I.		
G Final Closed-in Pressure	<u>978</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1333</u>	P.S.I.		

PRESSURE BREAKDOWN

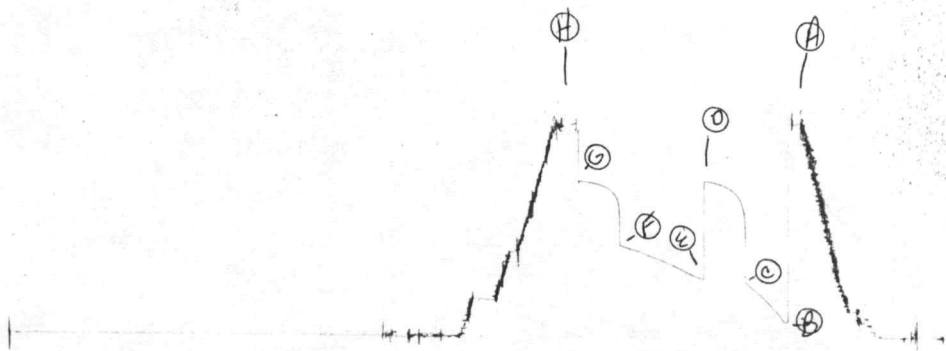
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</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>98</u>	<u>0</u>	<u>339</u>	<u>0</u>	<u>310</u>	<u>0</u>	<u>574</u>
P 2 <u>5</u>	<u>124</u>	<u>3</u>	<u>806</u>	<u>5</u>	<u>380</u>	<u>3</u>	<u>883</u>
P 3 <u>10</u>	<u>176</u>	<u>6</u>	<u>870</u>	<u>10</u>	<u>400</u>	<u>6</u>	<u>913</u>
P 4 <u>15</u>	<u>230</u>	<u>9</u>	<u>906</u>	<u>15</u>	<u>421</u>	<u>9</u>	<u>935</u>
P 5 <u>20</u>	<u>262</u>	<u>12</u>	<u>926</u>	<u>20</u>	<u>443</u>	<u>12</u>	<u>947</u>
P 6 <u>25</u>	<u>301</u>	<u>15</u>	<u>941</u>	<u>25</u>	<u>463</u>	<u>15</u>	<u>957</u>
P 7 <u>30</u>	<u>339</u>	<u>18</u>	<u>953</u>	<u>30</u>	<u>480</u>	<u>18</u>	<u>963</u>
P 8 <u>35</u>		<u>21</u>	<u>963</u>	<u>35</u>	<u>499</u>	<u>21</u>	<u>969</u>
P 9 <u>40</u>		<u>24</u>	<u>968</u>	<u>40</u>	<u>515</u>	<u>24</u>	<u>972</u>
P10 <u>45</u>		<u>27</u>	<u>973</u>	<u>45</u>	<u>531</u>	<u>27</u>	<u>977</u>
P11 <u>50</u>		<u>30</u>	<u>978</u>	<u>50</u>	<u>546</u>	<u>30</u>	<u>978</u>
P12 <u>55</u>		<u>33</u>	<u>979</u>	<u>55</u>	<u>561</u>	<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>574</u>	<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</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>	

1565

DST #1

JK # 15890

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Company F. G. Holl Lease & Well No. L. Young #1-18
Elevation - Formation Indian Cave Effective Pay - Ft. Ticket No. 15890
Date 4/ 25/82 Sec. 18 Twp. 30S Range 12W County Barber State Kansas
Test Approved by William J. Stobbe Western Representative Jeff Piotrowski
Formation Test No. 1 Interval Tested from 2695 ft. to 2750 ft. Total Depth 2750 ft.
Packer Depth 2690 ft. Size 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2695 ft. Size 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2698 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 2701 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sterling Drlg. Rig #2 Drill Collar Length 300 I. D. 2.2 in.
Mud Type drispac Viscosity 30 Weight Pipe Length 480 I. D. 3.2 in.
Weight 9.6 Water Loss N/C cc. Drill Pipe Length 1886 I. D. 3.8 in.
Chlorides 53,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 405 Anchor Length 55 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out Yes 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 XH in.

Blow: Fair building to strong initial flow period. Strong throughout final flow period.

Recovered 1200 ft. of water Chlorides 112,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:55 ~~A.M.~~ P.M. Time Started Off Bottom 7:25 ~~A.M.~~ P.M. Maximum Temperature 104°
Initial Hydrostatic Pressure (A) 1342 P.S.I.
Initial Flow Period Minutes 30 (B) 98 P.S.I. to (C) 339 P.S.I.
Initial Closed In Period Minutes 33 (D) 979 P.S.I.
Final Flow Period Minutes 60 (E) 370 P.S.I. to (F) 574 P.S.I.
Final Closed In Period Minutes 30 (G) 978 P.S.I.
Final Hydrostatic Pressure (H) 1333 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/25/82 Test Ticket No. 15890
 Recorder No. 1565 Capacity 4900 Location 2698 Ft.
 Clock No. --- Elevation --- Well Temperature 104 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1342</u> P.S.I.	Open Tool	<u>4:55P</u>	<u>M</u>
B First Initial Flow Pressure	<u>98</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>339</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>979</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>370</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>574</u> P.S.I.			
G Final Closed-in Pressure	<u>978</u> P.S.I.			
H Final Hydrostatic Mud	<u>1333</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>11</u> Inc.		Breakdown: <u>12</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>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>98</u>	<u>0</u>	<u>339</u>	<u>0</u>	<u>370</u>	<u>0</u>	<u>574</u>
P 2 <u>5</u>	<u>124</u>	<u>3</u>	<u>806</u>	<u>5</u>	<u>380</u>	<u>3</u>	<u>883</u>
P 3 <u>10</u>	<u>176</u>	<u>6</u>	<u>870</u>	<u>10</u>	<u>400</u>	<u>6</u>	<u>913</u>
P 4 <u>15</u>	<u>220</u>	<u>9</u>	<u>906</u>	<u>15</u>	<u>421</u>	<u>9</u>	<u>935</u>
P 5 <u>20</u>	<u>262</u>	<u>12</u>	<u>926</u>	<u>20</u>	<u>445</u>	<u>12</u>	<u>947</u>
P 6 <u>25</u>	<u>301</u>	<u>15</u>	<u>941</u>	<u>25</u>	<u>463</u>	<u>15</u>	<u>957</u>
P 7 <u>30</u>	<u>339</u>	<u>18</u>	<u>953</u>	<u>30</u>	<u>480</u>	<u>18</u>	<u>963</u>
P 8 _____	_____	<u>21</u>	<u>963</u>	<u>35</u>	<u>499</u>	<u>21</u>	<u>969</u>
P 9 _____	_____	<u>24</u>	<u>968</u>	<u>40</u>	<u>515</u>	<u>24</u>	<u>973</u>
P10 _____	_____	<u>27</u>	<u>973</u>	<u>45</u>	<u>531</u>	<u>27</u>	<u>977</u>
P11 _____	_____	<u>30</u>	<u>978</u>	<u>50</u>	<u>546</u>	<u>30</u>	<u>978</u>
P12 _____	_____	<u>33</u>	<u>979</u>	<u>55</u>	<u>561</u>	_____	_____
P13 _____	_____	_____	_____	<u>60</u>	<u>574</u>	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 15891

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation Douglas Eff. Pay _____ Ft.

District Pratt Date 4-27-82 Customer Order No. _____

COMPANY NAME F. G. Hall 6427 East Kellogg

ADDRESS Wichita KS 67207

LEASE AND WELL NO. Young #1-18 COUNTY Barber STATE KS Sec. 18 Twp. 30s Rge. 12w

Mail Invoice To Same No. Copies Requested Reg

Co. Name _____ Address _____ No. Copies Requested Reg

Mail Charts To Same Address _____ No. Copies Requested _____

Formation Test No. 2 Interval Tested From 3697 ft. to 3731 ft. Total Depth 3731 ft.

Packer Depth 3692 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3697 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3700 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 3703 ft. Recorder Number 1560 Cap. 4500

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Sterling #2 Drill Collar Length 300 I. D. 2.2 in.

Mud Type Drispec Viscosity 39 Weight Pipe Length 480 I. D. 3.2 in.

Weight 9.3 Water Loss 16.0 cc. Drill Pipe Length 2888 I. D. 3.8 in.

Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 405 Anchor Length 34 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 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong - GTS 3/min - See Gas Flow Report attached sheet for gas measurements.

Recovered 90 ft. of Mud Chlorides 39,000 ppm

Recovered 60 ft. of Watery Mud 76,000 ppm

Recovered 180 ft. of Water

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Resd Bottom Recorder

Time On Location 1:00 A.M. Time Pick Up Tool 2:30 A.M.

Time Set Packer(s) 4:25 A.M. Time Started Off Bottom 6:55 A.M.

Initial Hydrostatic Pressure _____ (A) 1849 P.S.I. Maximum Temperature 110°

Initial Flow Period _____ Minutes (B) 92 P.S.I. to (C) 92 P.S.I.

Initial Closed In Period _____ Minutes (D) 1376 P.S.I.

Final Flow Period _____ Minutes (E) 69 P.S.I. to (F) 115 P.S.I.

Final Closed In Period _____ Minutes (G) 1331 P.S.I.

Final Hydrostatic Pressure _____ (H) 1815 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 William J. Stobbe
Signature of Customer or his authorized representative

Western Representative W. J. Stobbe

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ 65.00
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 965.00

WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 4-27-82 Ticket 15891 Company F. G. Holl
Well Name and No. Young #1-18 Dst No. 2 Interval Tested 3697-3731
County Barber State KS Sec. 18 Twp. 30s Rg. 12w

[illegible]

SECOND FLOW

10	7	$\frac{1}{2}$	94,500 ctpd
20	10	}	116,000
30	16		153,000
40	19		171,000
50	22		189,000
60	23	$\frac{1}{2}$	193,000
			ck

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 1½% per month, equal to 18% 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 _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 4-27-82 Test Ticket No. 15891
 Recorder No. 1560 Capacity 4500 Location 3703 Ft.
 Clock No. Elevation Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1845</u>	P.S.I.	<u>4:25 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>93</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>103</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1373</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>66</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>119</u>	P.S.I.		
G Final Closed-in Pressure	<u>1330</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1811</u>	P.S.I.		

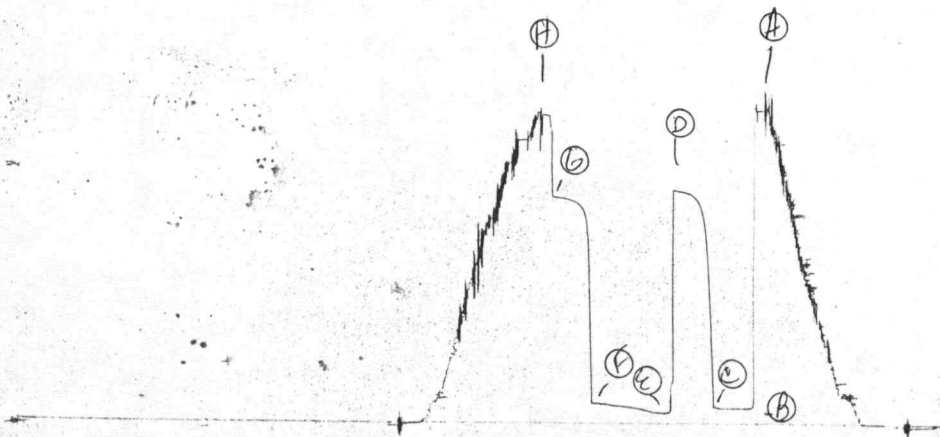
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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>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>93</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>119</u>
P 2 <u>5</u>		<u>3</u>	<u>810</u>	<u>5</u>	<u>66</u>	<u>3</u>	<u>1061</u>
P 3 <u>10</u>		<u>6</u>	<u>1132</u>	<u>10</u>	<u>66</u>	<u>6</u>	<u>1239</u>
P 4 <u>15</u>		<u>9</u>	<u>1255</u>	<u>15</u>	<u>72</u>	<u>9</u>	<u>1277</u>
P 5 <u>20</u>		<u>12</u>	<u>1310</u>	<u>20</u>	<u>81</u>	<u>12</u>	<u>1297</u>
P 6 <u>25</u>	<u>93</u>	<u>15</u>	<u>1337</u>	<u>25</u>	<u>89</u>	<u>15</u>	<u>1308</u>
P 7 <u>30</u>	<u>103</u>	<u>18</u>	<u>1351</u>	<u>30</u>	<u>96</u>	<u>18</u>	<u>1315</u>
P 8 <u>35</u>		<u>21</u>	<u>1360</u>	<u>35</u>	<u>101</u>	<u>21</u>	<u>1322</u>
P 9 <u>40</u>		<u>24</u>	<u>1365</u>	<u>40</u>	<u>104</u>	<u>24</u>	<u>1326</u>
P10 <u>45</u>		<u>27</u>	<u>1369</u>	<u>45</u>	<u>110</u>	<u>27</u>	<u>1329</u>
P11 <u>50</u>		<u>30</u>	<u>1373</u>	<u>50</u>	<u>116</u>	<u>30</u>	<u>1330</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>	<u>118</u>	<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>119</u>	<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</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>	

1560

DS1 #2

JK # 15891



Company F. G. Holl Lease & Well No. L. Young #1-18
Elevation - Formation Douglas Effective Pay - Ft. Ticket No. 15891
Date 4/ 27/82 Sec 18 Twp 30S Range 12W County Barber State Kansas
Test Approved by William J. Stobbe Western Representative Jeff Piotrowski
Formation Test No. 2 Interval Tested from 3697 ft. to 3731 ft. Total Depth 3731 ft.
Packer Depth 3692 ft. 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3697 ft. 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3700 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 3703 ft. * Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sterling Drlg. Rig #2 Drill Collar Length 300 I. D. 2.2 in.
Mud Type drispac Viscosity 39 Weight Pipe Length 480 I. D. 3.2 in.
Weight 9.3 Water Loss 16.0 cc. Drill Pipe Length 2888 I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 405 Anchor Length 34 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 XH in.

Blow: Strong. Gas to surface thirty-one minutes. See attached sheet for gas measurements.

Recovered <u>90</u> ft. of <u>mud</u>	
Recovered <u>60</u> ft. of <u>watery mud</u>	Chlorides <u>39,000</u> ppm
Recovered <u>180</u> ft. of <u>water</u>	<u>76,000</u> ppm
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	

Remarks:

* Read Bottom Recorder

Time Set Packer(s) <u>4:25</u> AM P.M.	Time Started Off Bottom <u>6:55</u> AM P.M.	Maximum Temperature <u>110°</u>
Initial Hydrostatic Pressure <u>1845</u> P.S.I.	(A)	
Initial Flow Period <u>30</u> Minutes (B) <u>93</u> P.S.I. to (C) <u>103</u> P.S.I.		
Initial Closed In Period <u>30</u> Minutes (D) <u>1373</u> P.S.I.		
Final Flow Period <u>60</u> Minutes (E) <u>66</u> P.S.I. to (F) <u>119</u> P.S.I.		
Final Closed In Period <u>30</u> Minutes (G) <u>1330</u> P.S.I.		
Final Hydrostatic Pressure <u>1811</u> P.S.I.	(H)	

GAS FLOW REPORT

Date 4/27/82 Ticket 15891 Company F. G. Holl
 Well Name and No. L. Young #1-18 Dst No. 2 Interval Tested 3697'-3731'
 County Barber State Kansas Sec. 18 Twp. 30S Rg. 12W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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Gas to surface in thirtyone **PRE FLOW** minutes.

SECOND FLOW

10 min.	7.0 PSIG	1/2"	orifice		94,500 CFPD
20 min.	10.0 PSIG	1/2"	orifice		116,000 CFPD
30 min.	16.0 PSIG	1/2"	orifice		153,000 CFPD
40 min.	19.0 PSIG	1/2"	orifice		171,000 CFPD
50 min.	22.0 PSIG	1/2"	orifice		189,000 CFPD
60 min.	23.0 PSIG	1/2"	orifice		193,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 4/27/82

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 1/2% per month, equal to 18% 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 F. G. Holl
 Authorized by William J. Stobbe

WESTERN TESTING CO., INC.

Pressure Data

Date 4/27/82 Recorder No. 1560 Capacity 4500 Test Ticket No. 15891
 Clock No. -- Elevation --- Location 3703 Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1845</u> P.S.I.	Open Tool	<u>4:25P</u>	<u>M</u>
B First Initial Flow Pressure	<u>93</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>103</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1373</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>66</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>119</u> P.S.I.			
G Final Closed-in Pressure	<u>1330</u> P.S.I.			
H Final Hydrostatic Mud	<u>1811</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>10</u> Inc.		Breakdown: <u>12</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>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>93</u>	<u>0</u>	<u>103</u>	<u>0</u>	<u>66</u>	<u>0</u>	<u>119</u>
P 2 <u>5</u>	<u>93</u>	<u>3</u>	<u>810</u>	<u>5</u>	<u>66</u>	<u>3</u>	<u>1061</u>
P 3 <u>10</u>	<u>93</u>	<u>6</u>	<u>1132</u>	<u>10</u>	<u>66</u>	<u>6</u>	<u>1239</u>
P 4 <u>15</u>	<u>93</u>	<u>9</u>	<u>1255</u>	<u>15</u>	<u>72</u>	<u>9</u>	<u>1277</u>
P 5 <u>20</u>	<u>93</u>	<u>12</u>	<u>1310</u>	<u>20</u>	<u>81</u>	<u>12</u>	<u>1297</u>
P 6 <u>25</u>	<u>93</u>	<u>15</u>	<u>1337</u>	<u>25</u>	<u>89</u>	<u>15</u>	<u>1308</u>
P 7 <u>30</u>	<u>103</u>	<u>18</u>	<u>1351</u>	<u>30</u>	<u>96</u>	<u>18</u>	<u>1315</u>
P 8		<u>21</u>	<u>1360</u>	<u>35</u>	<u>101</u>	<u>21</u>	<u>1322</u>
P 9		<u>24</u>	<u>1365</u>	<u>40</u>	<u>104</u>	<u>24</u>	<u>1326</u>
P10		<u>27</u>	<u>1369</u>	<u>45</u>	<u>110</u>	<u>27</u>	<u>1329</u>
P11		<u>30</u>	<u>1373</u>	<u>50</u>	<u>116</u>	<u>30</u>	<u>1330</u>
P12				<u>55</u>	<u>118</u>		
P13				<u>60</u>	<u>119</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 15892

OK

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation

Formation

Kansas City

Eff. Pay Ft.

District

Pratt

Date

4-29-82

Customer Order No.

COMPANY NAME

F. G. Holl

6427 East Kellogg

ADDRESS

Wichita

KS

67207

LEASE AND WELL NO.

Le Young #1-18

COUNTY

Barber

STATE

KS

Sec.

18

Twp.

30

Rge.

12W

Mail Invoice To

Same

No. Copies Requested

Reg

Co. Name

Mail Charts To

Same

Address

No. Copies Requested

Reg

Address

Formation Test No.

3

Interval Tested From

4096

ft. to

4123

ft. Total

Depth

4123

ft.

Packer Depth

4091

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Packer Depth

4096

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

4099

ft.

Recorder Number

1565

Cap.

4900

Bottom Recorder Depth (Outside)

4102

ft.

Recorder Number

1560

Cap.

4500

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Sterling #2

Drill Collar Length

300

I. D.

2.2

in.

Mud Type

Dis Pac

Viscosity

40

Weight Pipe Length

480

I. D.

3.2

in.

Weight

9.2

Water Loss

18.4

cc.

Drill Pipe Length

3285

I. D.

3.8

in.

Chlorides

30,000

P.P.M.

Test Tool Length

29

ft.

Tool Size

5/8 OD

in.

Jars: Make

WTC

Serial Number

405

Anchor Length

27

ft.

Size

5/8 OD

in.

Did Well Flow?

NO

Reversed Out

NO

Surface Choke Size

3/4

in.

Bottom Choke Size

3/4

in.

Main Hole Size

2 7/8

in.

Tool Joint Size

4 1/2 XH

in.

Blow:

Strong thru both flow periods

Blow throughout the test

Recovered

240

ft. of

Gss In Pipe

Recovered

120

ft. of

Gassy Mud - Few Oil Specks

Recovered

360

ft. of

Water

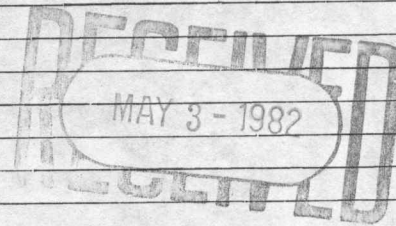
Recovered

ft. of

Recovered

ft. of

Remarks:



Time On Location

8:00

A.M.

Time Pick Up Tool

10:30

A.M.

Time Off Location

6:00

A.M.

Time Set Packer(s)

12:45

A.M.

Time Started Off Bottom

3:15

A.M.

Maximum Temperature

112°

Initial Hydrostatic Pressure

(A)

1963

P.S.I.

Initial Flow Period

Minutes

30

(B)

74

P.S.I. to (C)

111

P.S.I.

Initial Closed In Period

Minutes

30

(D)

1285

P.S.I.

Final Flow Period

Minutes

60

(E)

160

P.S.I. to (F)

222

P.S.I.

Final Closed In Period

Minutes

30

(G)

1100

P.S.I.

Final Hydrostatic Pressure

(H)

1963

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

William J. Stibbe

Signature of Customer or his authorized representative

Western Representative

J. P. Poterush

Thank you

FIELD INVOICE

Open Hole Test

\$

675.00

Misrun

\$

Straddle Test

\$

Jars

\$

300.00

Selective Zone

\$

Safety Joint

\$

65.00

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

Telecopier

\$

TOTAL

\$1040.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 4-29-82 Test Ticket No. 15892
 Recorder No. 1565 Capacity 4900 Location 4099 Ft
 Clock No. Elevation Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1963</u>	P.S.I.	<u>12:45</u> P	
B First Initial Flow Pressure	<u>71</u>	P.S.I.	<u>30</u> Mins.	<u>35</u> Mins
C First Final Flow Pressure	<u>109</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins
D Initial Closed-in Pressure	<u>1295</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins
E Second Initial Flow Pressure	<u>165</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins
F Second Final Flow Pressure	<u>230</u>	P.S.I.		
G Final Closed-in Pressure	<u>1118</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1943</u>	P.S.I.		

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 11 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.

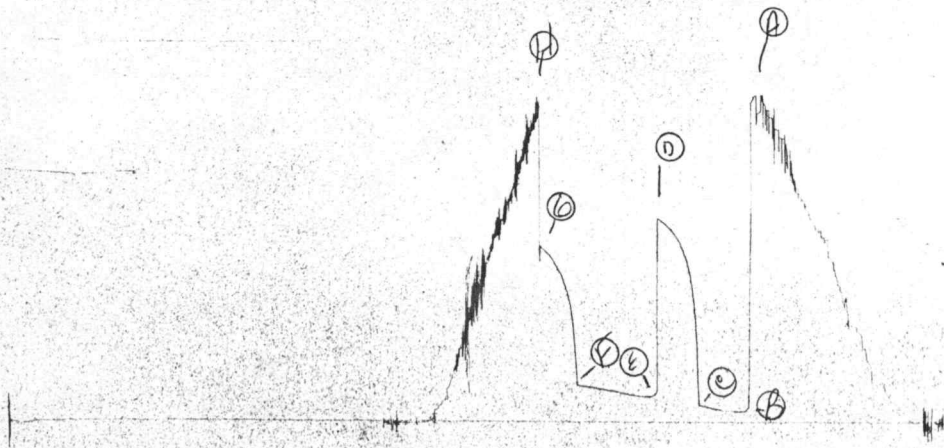
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>71</u>	0	<u>109</u>	0	<u>165</u>	0	<u>230</u>
P 2 5	<u>71</u>	3	<u>714</u>	5	<u>165</u>	3	<u>619</u>
P 3 10	<u>71</u>	6	<u>913</u>	10	<u>165</u>	6	<u>770</u>
P 4 15	<u>74</u>	9	<u>1037</u>	15	<u>171</u>	9	<u>856</u>
P 5 20	<u>77</u>	12	<u>1089</u>	20	<u>175</u>	12	<u>918</u>
P 6 25	<u>88</u>	15	<u>1148</u>	25	<u>183</u>	15	<u>974</u>
P 7 30	<u>99</u>	18	<u>1185</u>	30	<u>195</u>	18	<u>1015</u>
P 8 35	<u>109</u>	21	<u>1223</u>	35	<u>200</u>	21	<u>1053</u>
P 9 40		24	<u>1248</u>	40	<u>208</u>	24	<u>1079</u>
P10 45		27	<u>1270</u>	45	<u>215</u>	27	<u>1103</u>
P11 50		30	<u>1290</u>	50	<u>222</u>	30	<u>1118</u>
P12 55		33	<u>1295</u>	55	<u>228</u>	33	
P13 60		36		60	<u>230</u>	36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

1565

DST # 3

JK # 15892

I



Company F. G. Holl Lease & Well No. L. Young #1-18
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 15892
 Date 4/29/82 Sec. 18 Twp. 30S Range 12W County Barber State Kansas
 Test Approved by William J. Stobbe Western Representative Jeff Piotrowski
 Formation Test No. 3 Interval Tested from 4096 ft. to 4123 ft. Total Depth 4123 ft.
 Packer Depth 4091 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4096 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4099 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 4102 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Sterling Drlg. Rig #2 Drill Collar Length 300 I. D. 2.2 in.
 Mud Type drispac Viscosity 40 Weight Pipe Length 480 I. D. 3.2 in.
 Weight 9.2 Water Loss 18.4 cc. Drill Pipe Length 3287 I. D. 3.8 in.
 Chlorides 30,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 405 Anchor Length 27 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 XH in.

Blow: Strong blow throughout test.

Recovered 240 ft. of gas in pipe
 Recovered 120 ft. of gassy mud - few oil specks
 Recovered 360 ft. of water
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 12:45 ~~AM~~ P.M. Time Started Off Bottom 3:15 ~~AM~~ P.M. Maximum Temperature 112°
 Initial Hydrostatic Pressure 1963 P.S.I.
 Initial Flow Period 35 Minutes (B) 71 P.S.I. to (C) 109 P.S.I.
 Initial Closed In Period 33 Minutes (D) 1295 P.S.I.
 Final Flow Period 60 Minutes (E) 165 P.S.I. to (F) 230 P.S.I.
 Final Closed In Period 30 Minutes (G) 1118 P.S.I.
 Final Hydrostatic Pressure 1963 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 4/29/82 Test Ticket No. 15892
 Recorder No. 1565 Capacity 4900 Location 4099 Ft.
 Clock No. -- Elevation --- Well Temperature 112 °F

Point	Pressure	Open Tool	Time Given 12:45P	Time Computed M
A Initial Hydrostatic Mud	<u>1963</u> P.S.I.		<u>30</u>	<u>35</u> Mins.
B First Initial Flow Pressure	<u>71</u> P.S.I.	First Flow Pressure	<u>30</u>	<u>33</u> Mins.
C First Final Flow Pressure	<u>109</u> P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1295</u> P.S.I.	Second Flow Pressure	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>165</u> P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	<u>230</u> P.S.I.			
G Final Closed-in Pressure	<u>1118</u> P.S.I.			
H Final Hydrostatic Mud	<u>1963</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</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>0</u>	<u>71</u>	<u>0</u>	<u>109</u>	<u>0</u>	<u>165</u>	<u>0</u>	<u>230</u>
P 2 <u>5</u>	<u>71</u>	<u>3</u>	<u>714</u>	<u>5</u>	<u>165</u>	<u>3</u>	<u>619</u>
P 3 <u>10</u>	<u>71</u>	<u>6</u>	<u>913</u>	<u>10</u>	<u>165</u>	<u>6</u>	<u>770</u>
P 4 <u>15</u>	<u>74</u>	<u>9</u>	<u>1027</u>	<u>15</u>	<u>171</u>	<u>9</u>	<u>856</u>
P 5 <u>20</u>	<u>77</u>	<u>12</u>	<u>1089</u>	<u>20</u>	<u>175</u>	<u>12</u>	<u>918</u>
P 6 <u>25</u>	<u>88</u>	<u>15</u>	<u>1148</u>	<u>25</u>	<u>183</u>	<u>15</u>	<u>974</u>
P 7 <u>30</u>	<u>99</u>	<u>18</u>	<u>1185</u>	<u>30</u>	<u>195</u>	<u>18</u>	<u>1015</u>
P 8 <u>35</u>	<u>109</u>	<u>21</u>	<u>1223</u>	<u>35</u>	<u>200</u>	<u>21</u>	<u>1053</u>
P 9		<u>24</u>	<u>1248</u>	<u>40</u>	<u>208</u>	<u>24</u>	<u>1079</u>
P10		<u>27</u>	<u>1270</u>	<u>45</u>	<u>215</u>	<u>27</u>	<u>1103</u>
P11		<u>30</u>	<u>1290</u>	<u>50</u>	<u>223</u>	<u>30</u>	<u>1118</u>
P12		<u>33</u>	<u>1295</u>	<u>55</u>	<u>228</u>		
P13				<u>60</u>	<u>230</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 15893

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation

Formation

Marmaton

Eff. Pay Ft.

District

Prstt

Date 4-30-82

Customer Order No.

COMPANY NAME

F. G. Hall

ADDRESS

Wichita KS

LEASE AND WELL NO.

Young #1-18

COUNTY

Barber

STATE

KS

Sec.

18

Twp.

30s

Rge.

12w

Mail Invoice To

Same

No. Copies Requested

Reg

Mail Charts To

Same

Address

No. Copies Requested

Reg

Address

Formation Test No.

4

Interval Tested From

4205

ft. to

4245

ft. Total Depth

4245

ft.

Packer Depth

4200

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Packer Depth

4205

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

4208

ft.

Recorder Number

1565

Cap.

4900

Bottom Recorder Depth (Outside)

4211

ft.

Recorder Number

1560

Cap.

4500

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Sterling #2

Drill Collar Length

300

I. D.

2.2

in.

Mud Type

Driscoll

Viscosity

40

Weight Pipe Length

480

I. D.

3.2

in.

Weight

9.2

Water Loss

18.4

cc.

Drill Pipe Length

3396

I. D.

3.8

in.

Chlorides

30,000

P.P.M.

Test Tool Length

29

ft.

Tool Size

5 1/2 OD

in.

Jars: Make

UTC

Serial Number

405

Anchor Length

40

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

7/8

in.

Tool Joint Size

4 1/2 XH

in.

Blow:

Fair Building to Strong - the flow period
Strong thru FF. throughout the final flow period.

Recovered 480 ft. of

Gas In Pipe

Recovered 100 ft. of

Gas Cut Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location

8:00

A.M.

Time Pick Up Tool

9:00

A.M.

Time Off Location

4:00

A.M.

Time Set Packer(s)

10:55

A.M.

Time Started Off Bottom

1:25

A.M.

Maximum Temperature

114°

Initial Hydrostatic Pressure

Minutes

30

(A)

2073

P.S.I.

Initial Flow Period

Minutes

30

(B)

49

P.S.I. to (C)

49

P.S.I.

Initial Closed In Period

Minutes

30

(D)

136

P.S.I.

Final Flow Period

Minutes

60

(E)

61

P.S.I. to (F)

74

P.S.I.

Final Closed In Period

Minutes

30

(G)

99

P.S.I.

Final Hydrostatic Pressure

Minutes

30

(H)

2073

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

William J. Hobbs

Signature of Customer or his authorized representative

Western Representative

Protonish

Thank you

FIELD INVOICE

Open Hole Test

\$

675.00

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

Telecopier

\$

TOTAL

\$

1040.00

WESTERN TESTING CO., INC.

Pressure Data

Date 4-30-82 Test Ticket No. 15893
 Recorder No. 1565 Capacity 4900 Location 4208 Ft
 Clock No. Elevation Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>3068</u>	P.S.I.	<u>10:55 A</u>	
B First Initial Flow Pressure	<u>51</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>53</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>114</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>69</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
F Second Final Flow Pressure	<u>81</u>	P.S.I.		
G Final Closed-in Pressure	<u>97</u>	P.S.I.		
H Final Hydrostatic Mud	<u>3068</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 4 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.

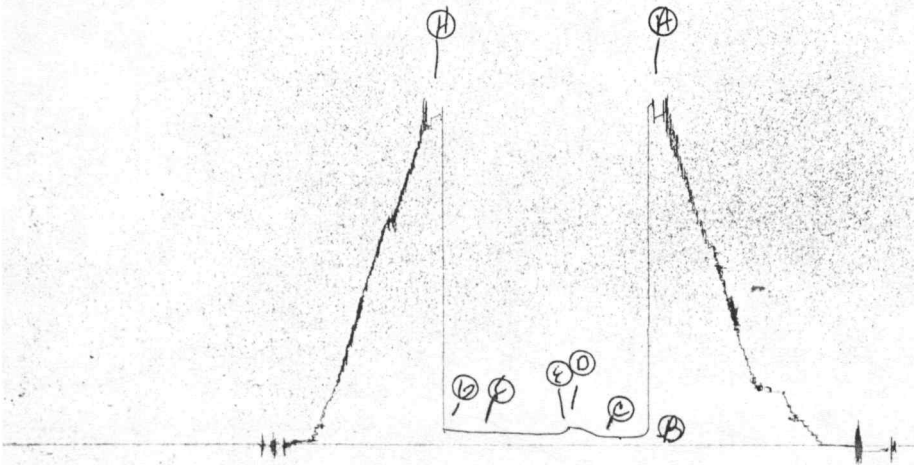
Final Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>51</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>81</u>
P 2 <u>5</u>	<u> </u>	<u>3</u>	<u>56</u>	<u>5</u>	<u> </u>	<u>3</u>	<u>82</u>
P 3 <u>10</u>	<u> </u>	<u>6</u>	<u>59</u>	<u>10</u>	<u> </u>	<u>6</u>	<u>83</u>
P 4 <u>15</u>	<u> </u>	<u>9</u>	<u>67</u>	<u>15</u>	<u> </u>	<u>9</u>	<u>84</u>
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>79</u>	<u>20</u>	<u>69</u>	<u>12</u>	<u>86</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>91</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>88</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>99</u>	<u>30</u>	<u>72</u>	<u>18</u>	<u>90</u>
P 8 <u>35</u>	<u> </u>	<u>21</u>	<u>106</u>	<u>35</u>	<u>74</u>	<u>21</u>	<u>92</u>
P 9 <u>40</u>	<u> </u>	<u>24</u>	<u>109</u>	<u>40</u>	<u>76</u>	<u>24</u>	<u>94</u>
P10 <u>45</u>	<u> </u>	<u>27</u>	<u>111</u>	<u>45</u>	<u>78</u>	<u>27</u>	<u>96</u>
P11 <u>50</u>	<u> </u>	<u>30</u>	<u>114</u>	<u>50</u>	<u>79</u>	<u>30</u>	<u>97</u>
P12 <u>55</u>	<u> </u>	<u>33</u>	<u> </u>	<u>55</u>	<u>80</u>	<u>33</u>	<u> </u>
P13 <u>60</u>	<u> </u>	<u>36</u>	<u> </u>	<u>60</u>	<u>81</u>	<u>36</u>	<u> </u>
P14 <u> </u>	<u> </u>	<u>39</u>	<u> </u>	<u>65</u>	<u> </u>	<u>39</u>	<u> </u>
P15 <u> </u>	<u> </u>	<u>42</u>	<u> </u>	<u>70</u>	<u> </u>	<u>42</u>	<u> </u>
P16 <u> </u>	<u> </u>	<u>45</u>	<u> </u>	<u>75</u>	<u> </u>	<u>45</u>	<u> </u>
P17 <u> </u>	<u> </u>	<u>48</u>	<u> </u>	<u>80</u>	<u> </u>	<u>48</u>	<u> </u>
P18 <u> </u>	<u> </u>	<u>51</u>	<u> </u>	<u>85</u>	<u> </u>	<u>51</u>	<u> </u>
P19 <u> </u>	<u> </u>	<u>54</u>	<u> </u>	<u>90</u>	<u> </u>	<u>54</u>	<u> </u>
P20 <u> </u>	<u> </u>	<u>57</u>	<u> </u>	<u> </u>	<u> </u>	<u>57</u>	<u> </u>
		<u>60</u>	<u> </u>	<u> </u>	<u> </u>	<u>60</u>	<u> </u>

1565
DST #y

JK # 15893

I



Company F. G. Holl Lease & Well No. L. Young #1-18
 Elevation - Formation Marmaton Effective Pay - Ft. Ticket No. 15893
 Date 4/ 30/82 Sec. 18 Twp. 30S Range 12W County Barber State Kansas
 Test Approved by William J. Stobbe Western Representative Jeff Piotrowski
 Formation Test No. 4 Interval Tested from 4205 ft. to 4245 ft. Total Depth 4245 ft.
 Packer Depth 4200 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4205 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4208 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 4211 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Sterling Drlg. Rig #2 Drill Collar Length 300 I. D. 2.2 in.
 Mud Type drispac Viscosity 40 Weight Pipe Length 480 I. D. 3.2 in.
 Weight 9.2 Water Loss 18.4 cc. Drill Pipe Length 3396 I. D. 3.8 in.
 Chlorides 30,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 405 Anchor Length 40 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 XH in.

Blow: Fair building to strong on initial flow period. Strong throughout final flow period.

Recovered 480 ft. of gas in pipe

Recovered 120 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:55 A.M. Time Started Off Bottom 1:25 P.M. Maximum Temperature 114°
 Initial Hydrostatic Pressure 2068 P.S.I.
 Initial Flow Period 30 Minutes (B) 51 P.S.I. to (C) 53 P.S.I.
 Initial Closed In Period 30 Minutes (D) 116 P.S.I.
 Final Flow Period 60 Minutes (E) 69 P.S.I. to (F) 81 P.S.I.
 Final Closed In Period 30 Minutes (G) 97 P.S.I.
 Final Hydrostatic Pressure 2068 P.S.I. (H)

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

Date 4/30/82 Recorder No. 1565 Capacity 4900 Test Ticket No. 15893 Location 4208 Ft.
Clock No. --- Elevation --- Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2068</u>	P.S.I.	10:55A	M
B First Initial Flow Pressure	<u>51</u>	P.S.I.	30	30
C First Final Flow Pressure	<u>53</u>	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	<u>116</u>	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	<u>69</u>	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	<u>81</u>	P.S.I.		
G Final Closed-in Pressure	<u>97</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2068</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>10</u> Inc.		Breakdown: <u>12</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>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>51</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>81</u>
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>56</u>	<u>5</u>	<u>69</u>	<u>3</u>	<u>82</u>
P 3 <u>10</u>	<u>51</u>	<u>6</u>	<u>59</u>	<u>10</u>	<u>69</u>	<u>6</u>	<u>83</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>67</u>	<u>15</u>	<u>69</u>	<u>9</u>	<u>84</u>
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>79</u>	<u>20</u>	<u>69</u>	<u>12</u>	<u>86</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>91</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>88</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>99</u>	<u>30</u>	<u>72</u>	<u>18</u>	<u>90</u>
P 8		<u>21</u>	<u>106</u>	<u>35</u>	<u>74</u>	<u>21</u>	<u>92</u>
P 9		<u>24</u>	<u>109</u>	<u>40</u>	<u>76</u>	<u>24</u>	<u>94</u>
P10		<u>27</u>	<u>111</u>	<u>45</u>	<u>78</u>	<u>27</u>	<u>96</u>
P11		<u>30</u>	<u>116</u>	<u>50</u>	<u>79</u>	<u>30</u>	<u>97</u>
P12				<u>55</u>	<u>80</u>		
P13				<u>60</u>	<u>81</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 15894

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation

Formation

Eff. Pay Ft.

District

Date

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

COUNTY

STATE

Sec.

Twp.

Rge.

Mail Invoice To

Co. Name

Address

No. Copies Requested

Mail Charts To

Address

No. Copies Requested

Formation Test No.

Interval Tested From

ft. to

ft. Total Depth

ft.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

ft.

Recorder Number

Cap.

Bottom Recorder Depth (Outside)

ft.

Recorder Number

Cap.

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Mud Type

Viscosity

Weight

Water Loss

cc.

Chlorides

P.P.M.

Jars: Make

Serial Number

Did Well Flow?

Reversed Out

Drill Collar Length

I. D.

Weight Pipe Length

I. D.

Drill Pipe Length

I. D.

Test Tool Length

ft. Tool Size

Anchor Length

Size

Surface Choke Size

Bottom Choke Size

Main Hole Size

Tool Joint Size

Blow:

Recovered

Recovered

Recovered

Recovered

Recovered

Remarks:

Time On Location

Time Pick Up Tool

Time Off Location

Time Set Packer(s)

Time Started Off Bottom

Maximum Temperature

Initial Hydrostatic Pressure

Initial Flow Period

Initial Closed In Period

Final Flow Period

Final Closed In Period

Final Hydrostatic Pressure

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

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test

Misrun

Straddle Test

Jars

Selective Zone

Safety Joint

Standby

Evaluation

Extra Packer

Circ. Sub.

Mileage

Fluid Sampler

Extra Charts

Insurance

Telecopier

TOTAL

WESTERN TESTING CO., INC.

Pressure Data

Date: 5-1-82 Test Ticket No. 15894
 Recorder No. 1565 Capacity 4900 Location 4259 Ft
 Clock No. Elevation Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2116</u>	P.S.I.	<u>5:40</u>	<u>A</u>
B First Initial Flow Pressure	<u>96</u>	P.S.I.	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>116</u>	P.S.I.	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>150</u>	P.S.I.	<u>60</u>	<u>60</u>
E Second Initial Flow Pressure	<u>130</u>	P.S.I.	<u>30</u>	<u>30</u>
F Second Final Flow Pressure	<u>146</u>	P.S.I.		
G Final Closed-in Pressure	<u>173</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2116</u>	P.S.I.		

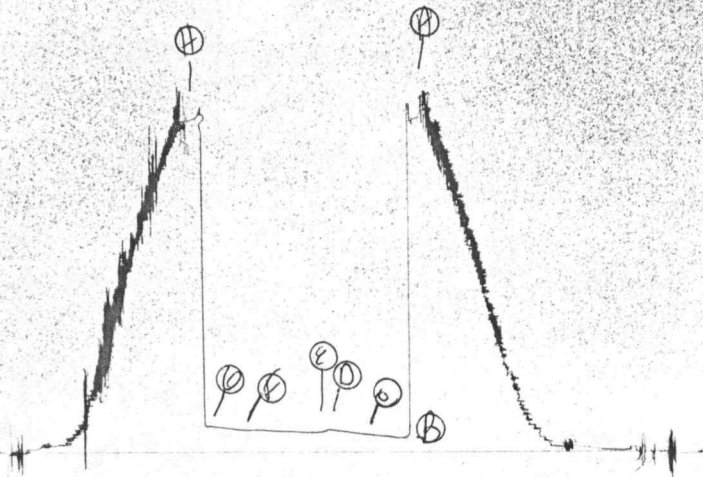
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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>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	<u>96</u>	0	<u>116</u>	0	<u>130</u>	0	<u>146</u>
P 2 5	<u>96</u>	3	<u>119</u>	5	<u>1</u>	3	<u>148</u>
P 3 10	<u>98</u>	6	<u>123</u>	10	<u>1</u>	6	<u>150</u>
P 4 15	<u>104</u>	9	<u>126</u>	15	<u>130</u>	9	<u>152</u>
P 5 20	<u>106</u>	12	<u>130</u>	20	<u>132</u>	12	<u>154</u>
P 6 25	<u>111</u>	15	<u>134</u>	25	<u>136</u>	15	<u>159</u>
P 7 30	<u>116</u>	18	<u>138</u>	30	<u>136</u>	18	<u>162</u>
P 8 35		21	<u>140</u>	35	<u>138</u>	21	<u>165</u>
P 9 40		24	<u>144</u>	40	<u>140</u>	24	<u>168</u>
P10 45		27	<u>148</u>	45	<u>144</u>	27	<u>171</u>
P11 50		30	<u>150</u>	50	<u>145</u>	30	<u>173</u>
P12 55		<u>33</u>		55	<u>146</u>	<u>33</u>	
P13 60		<u>36</u>		60	<u>146</u>	<u>36</u>	
P14		<u>39</u>		<u>65</u>		<u>39</u>	
P15		<u>42</u>		<u>70</u>		<u>42</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>	

1565

DS705

KA # 15894
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Company F. G. Holl Lease & Well No. L. Young #1-18
Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 15894
Date 5/ 1 /82 Sec. 18 Twp. 30S Range 12W County Barber State Kansas
Test Approved by William J. Stobbe Western Representative Jeff Piotrowski
Formation Test No. 5 Interval Tested from 4256 ft. to 4326 ft. Total Depth 4326 ft.
Packer Depth 4251 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4256 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4259 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 4262 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sterling Drlg. Rig #2 Drill Collar Length 300 I. D. 2.2 in.
Mud Type drispac Viscosity 65 Weight Pipe Length 480 I. D. 3.2 in.
Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3427 I. D. 3.8 in.
Chlorides 48,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 405 Anchor Length 70 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 XH in.

Blow: Fair throughout initial flow period. Fair decreasing to weak on final flow period.

Recovered 120 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:40 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 8:10 ~~P.M.~~ ^{A.M.} Maximum Temperature 118°
Initial Hydrostatic Pressure 2116 P.S.I.
Initial Flow Period 30 Minutes (B) 96 P.S.I. to (C) 116 P.S.I.
Initial Closed In Period 30 Minutes (D) 150 P.S.I.
Final Flow Period 60 Minutes (E) 130 P.S.I. to (F) 146 P.S.I.
Final Closed In Period 30 Minutes (G) 173 P.S.I.
Final Hydrostatic Pressure 2116 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 5/1/82 Test Ticket No. 15894
 Recorder No. 1565 Capacity 4900 Location 4259 Ft.
 Clock No. --- Elevation --- Well Temperature 118 °F

Point	Pressure	Time Given 5:40A	Time Computed
A Initial Hydrostatic Mud	2116 P.S.I.		
B First Initial Flow Pressure	96 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	116 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	150 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	130 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	146 P.S.I.		
G Final Closed-in Pressure	173 P.S.I.		
H Final Hydrostatic Mud	2116 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</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>0</u>	<u>96</u>	<u>0</u>	<u>116</u>	<u>0</u>	<u>130</u>	<u>0</u>	<u>146</u>
P 2 <u>5</u>	<u>96</u>	<u>3</u>	<u>119</u>	<u>5</u>	<u>130</u>	<u>3</u>	<u>148</u>
P 3 <u>10</u>	<u>98</u>	<u>6</u>	<u>123</u>	<u>10</u>	<u>130</u>	<u>6</u>	<u>150</u>
P 4 <u>15</u>	<u>104</u>	<u>9</u>	<u>126</u>	<u>15</u>	<u>130</u>	<u>9</u>	<u>153</u>
P 5 <u>20</u>	<u>106</u>	<u>12</u>	<u>130</u>	<u>20</u>	<u>133</u>	<u>12</u>	<u>156</u>
P 6 <u>25</u>	<u>111</u>	<u>15</u>	<u>134</u>	<u>25</u>	<u>136</u>	<u>15</u>	<u>159</u>
P 7 <u>30</u>	<u>116</u>	<u>18</u>	<u>138</u>	<u>30</u>	<u>136</u>	<u>18</u>	<u>162</u>
P 8		<u>21</u>	<u>140</u>	<u>35</u>	<u>138</u>	<u>21</u>	<u>165</u>
P 9		<u>24</u>	<u>144</u>	<u>40</u>	<u>140</u>	<u>24</u>	<u>168</u>
P10		<u>27</u>	<u>148</u>	<u>45</u>	<u>144</u>	<u>27</u>	<u>171</u>
P11		<u>30</u>	<u>150</u>	<u>50</u>	<u>145</u>	<u>30</u>	<u>173</u>
P12				<u>55</u>	<u>146</u>		
P13				<u>60</u>	<u>146</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							