



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 5578

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

Elevation

Formation

INDIAN CAVES

Eff. Pay Ft.

District

Pratt

Date 1-27-80

Customer Order No.

COMPANY NAME

F. G. Hall

ADDRESS

64276 Kullback Wichita 67207

LEASE AND WELL NO.

Hazelton #1-2

COUNTY

Barber

STATE

Ks

Sec.

2

Twp

30s

Rge

13W

Mail Invoice To

Co. Name

SAME
Address

No. Copies Requested req

Mail Charts To

SAME
Address

No. Copies Requested req

Formation Test No.

1

Interval Tested from

2753

ft. to 2800

ft.

Total Depth

2800

ft.

Packer Depth

2748

ft.

Size

6 3/4

in.

Packer Depth

-

ft.

Size

-

in.

Packer Depth

2753

ft.

Size

6 3/4

in.

Packer Depth

-

ft.

Size

-

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

2765

ft.

Recorder Number

6246

Cap.

5200

Bottom Recorder Depth (Outside)

2768

ft.

Recorder Number

2604

Cap.

4150

Below Straddle Recorder Depth

-

ft.

Recorder Number

-

Cap.

-

Drilling Contractor

DAMAC

Rig #1

Drill Collar Length

427

I. D.

3 1/2

in.

Mud Type

Prispar

Viscosity

34

Weight Pipe Length

-

I. D.

-

in.

Weight

9.4

Water Loss

NC

cc.

Drill Pipe Length

2306

I. D.

3.8

in.

Chlorides

72,000

P.P.M.

Test Tool Length

20

ft.

Tool Size

5 1/2 O.D.

in.

Jars: Make

No

Serial Number

-

Anchor Length

47'

ft.

Size

5 1/2 O.D.

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 x 1 1/2

in.

Blow: Weak blow throughout test.

Recovered

425

ft. of

Muddy salt water

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Remarks:

Solid tool around 20' to 25'.

Time Set Packer(s)

9.40

A.M.
P.M.

Time Started Off Bottom

11:40

A.M.
P.M.

Maximum Temperature

100°F.

Initial Hydrostatic Pressure

(A)

1129

P.S.I.

Initial Flow Period

Minutes

30

(B)

63

P.S.I. to (C)

106

P.S.I.

Initial Closed In Period

Minutes

30

(D)

784

P.S.I.

Final Flow Period

Minutes

30

(E)

138

P.S.I. to (F)

170

P.S.I.

Final Closed In Period

Minutes

30

(G)

773

P.S.I.

Final Hydrostatic Pressure

(H)

1098

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

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test

\$ 500.00

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

TOTAL

\$ 500.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-27-80 Test Ticket No. 5578
 Recorder No. 6246 Capacity 5200 Location 2765 Ft.
 Block No. _____ Elevation _____ Well Temperature 100 °F
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 Initial Hydrostatic Mud 1165 P.S.I. Open Tool 9:40 A M
 First Initial Flow Pressure 60 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 First Final Flow Pressure 126 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 Initial Closed-in Pressure 854 P.S.I. Second Flow Pressure 30 Mins. 30 Mins.
 Second Initial Flow Pressure 151 P.S.I. Final Closed-in Pressure 30 Mins. 30 Mins.
 Second Final Flow Pressure 197 P.S.I.
 Final Closed-in Pressure 840 P.S.I.
 Final Hydrostatic Mud 1120 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: 6 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 ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1	0	0	126	0	151	0	197
2	5	3	653	5	151	3	660
3	10	6	741	10	161	6	734
4	15	9	773	15	172	9	766
5	20	12	795	20	181	12	786
6	25	15	813	25	188	15	800
7	30	18	821	30	197	18	811
8	35	21	830	35		21	820
9	40	24	838	40		24	827
10	45	27	846	45		27	839
11	50	30	854	50		30	840
12	55	33		55		33	
13	60	36		60		36	
14		39		65		39	
15		42		70		42	
16		45		75		45	
17		48		80		48	
18		51		85		51	
19		54		90		54	
20		57				57	
		60				60	

Company F. G. Holl Lease & Well No. Hazelton #1-2
 Elevation ----- Formation Indian Cave Effective Pay -- Ft. Ticket No. 5578
 Date 1/27/80 Sec. 2 Twp. 30S Range 13W County Barber State Kansas
 Test Approved by Carl Todd Western Representative Mike Tritt
 Formation Test No. 1 Interval Tested from 2753 ft. to 2800 ft. Total Depth 2800 ft.
 Packer Depth 2748 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2753 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2765 ft. Recorder Number 6246 Cap. 5200
 Bottom Recorder Depth (Outside) 2768 ft. Recorder Number 2604 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor DaMac Drilling Rig #1 Drill Collar Length 427 I. D. 2 1/2 in.
 Mud Type drispac Viscosity 34 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss NC cc. Drill Pipe Length 2306 I. D. 3.8 in.
 Chlorides 72,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 47 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 XH in.

Blow: Weak blow throughout test.

Recovered 425 ft. of muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool around 20 to 25 feet.

Time Set Packer(s) 9:40 A.M. =P.M. Time Started Off Bottom 11:40 A.M. =P.M. Maximum Temperature 100°
 Initial Hydrostatic Pressure (A) 1165 P.S.I.
 Initial Flow Period Minutes 30 (B) 60 P.S.I. to (C) 126 P.S.I.
 Initial Closed In Period Minutes 30 (D) 854 P.S.I.
 Final Flow Period Minutes 30 (E) 151 P.S.I. to (F) 197 P.S.I.
 Final Closed In Period Minutes 30 (G) 840 P.S.I.
 Final Hydrostatic Pressure (H) 1120 P.S.I.

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

Date 1/27/80 Test Ticket No. 5578
 Recorder No. 6246 Capacity 5200 Location 2765 Ft.
 Clock No. ----- Elevation ----- Well Temperature 100 °F

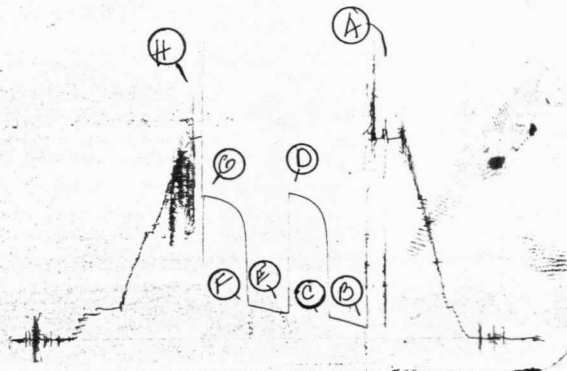
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1165</u> P.S.I.	Open Tool	<u>9:40A</u> M	
B First Initial Flow Pressure	<u>60</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>126</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>854</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>151</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>197</u> P.S.I.			
G Final Closed-in Pressure	<u>840</u> P.S.I.			
H Final Hydrostatic Mud	<u>1120</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>6</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>60</u>	<u>0</u>	<u>126</u>	<u>0</u>	<u>151</u>	<u>0</u>	<u>197</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>653</u>	<u>5</u>	<u>151</u>	<u>3</u>	<u>660</u>
P 3 <u>10</u>	<u>85</u>	<u>6</u>	<u>741</u>	<u>10</u>	<u>161</u>	<u>6</u>	<u>734</u>
P 4 <u>15</u>	<u>99</u>	<u>9</u>	<u>773</u>	<u>15</u>	<u>172</u>	<u>9</u>	<u>766</u>
P 5 <u>20</u>	<u>109</u>	<u>12</u>	<u>795</u>	<u>20</u>	<u>181</u>	<u>12</u>	<u>786</u>
P 6 <u>25</u>	<u>119</u>	<u>15</u>	<u>813</u>	<u>25</u>	<u>188</u>	<u>15</u>	<u>800</u>
P 7 <u>30</u>	<u>126</u>	<u>18</u>	<u>821</u>	<u>30</u>	<u>197</u>	<u>18</u>	<u>811</u>
P 8		<u>21</u>	<u>830</u>			<u>21</u>	<u>820</u>
P 9		<u>24</u>	<u>838</u>			<u>24</u>	<u>827</u>
P10		<u>27</u>	<u>846</u>			<u>27</u>	<u>839</u>
P11		<u>30</u>	<u>854</u>			<u>30</u>	<u>840</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

0246 DST #1

Tkt #5578
I





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 3562

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

Elevation

Formation

Miss

Eff. Pay Ft.

District Pratt

Date 1/30/80

Customer Order No.

COMPANY NAME

F.G. Holl

ADDRESS

6427 East Kellogg Wichita, Ks 67207

LEASE AND WELL NO.

Hazelton #1-2

COUNTY Barber

STATE Ks

Sec. 2

Twp 30 Rge 13

Mail Invoice To

Same

Address

No. Copies Requested 5

Mail Charts To

Same

Address

No. Copies Requested 5

Formation Test No.

2

Interval Tested from

4320

ft. to

4370

ft.

Total Depth

4370

ft.

Packer Depth

4315

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Packer Depth

4320

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

4360

ft.

Recorder Number

2607

Cap.

4150

Bottom Recorder Depth (Outside)

4363

ft.

Recorder Number

3351

Cap.

4000

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Cap.

Cap.

Drilling Contractor

Damac Drlg Rig #1

Mud Type

Premix-Drispac

Viscosity

51

Weight

9.0

Water Loss

8.8

cc.

Chlorides

21,000

P.P.M.

Jars: Make

No

Serial Number

No

Did Well Flow?

No

Reversed Out

No

Drill Collar Length

ft.

I. D.

in.

Weight Pipe Length

ft.

I. D.

in.

Drill Pipe Length

4299

I. D.

3.8

in.

Test Tool Length

21

ft.

Tool Size

5500

in.

Anchor Length

50

ft.

Size

5500

in.

Surface Choke Size

3/4

in.

Bottom Choke Size

3/4

in.

Main Hole Size

7/8

in.

Tool Joint Size

4 1/2 FH

in.

Blow:

Strong blow throughout flow periods

Recovered

40

ft. of

Drlg Mud

Recovered

ft. of

Recovered

ft. of

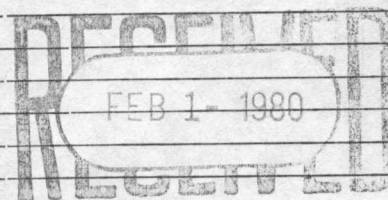
Recovered

ft. of

Recovered

ft. of

Remarks:



Time Set Packer(s)

3135

AM. P.M.

Time Started Off Bottom

6:05

AM. P.M.

Maximum Temperature

127°

Initial Hydrostatic Pressure

(A)

2141

P.S.I.

Initial Flow Period

Minutes

30

(B)

84

P.S.I. to (C)

84

P.S.I.

Initial Closed In Period

Minutes

30

(D)

158

P.S.I.

Final Flow Period

Minutes

60

(E)

95

P.S.I. to (F)

95

P.S.I.

Final Closed In Period

Minutes

30

(G)

158

P.S.I.

Final Hydrostatic Pressure

(H)

2120

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

Jim Wondra Thank You

FIELD INVOICE

Open Hole Test

\$

550

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

TOTAL

\$ 550

WESTERN TESTING CO., INC.

Pressure Data

Date 1-30-80 Test Ticket No. 3562
 Recorder No. 2607 Capacity 4150 Location 4360 Ft.
 Clock No. _____ Elevation _____ Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2135</u>	P.S.I.	<u>3:35</u> P M	
B First Initial Flow Pressure	<u>84</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>76</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>154</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>87</u>	P.S.I.		
G Final Closed-in Pressure	<u>157</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2131</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>12</u> Inc.		Breakdown: <u>9</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>84</u>	0	<u>76</u>	0	<u>89</u>	0	<u>87</u>
P 2 5	<u>80</u>	3	<u>82</u>	5	<u>89</u>	3	<u>93</u>
P 3 10	<u>76</u>	6	<u>93</u>	10	<u>88</u>	6	<u>98</u>
P 4 15		9	<u>99</u>	15	<u>87</u>	9	<u>103</u>
P 5 20		12	<u>101</u>	20		12	<u>108</u>
P 6 25		15	<u>111</u>	25		15	<u>116</u>
P 7 30	<u>76</u>	18	<u>123</u>	30		18	<u>127</u>
P 8 35		21	<u>132</u>	35		21	<u>136</u>
P 9 40		24	<u>144</u>	40		24	<u>147</u>
P 10 45		27	<u>154</u>	45		27	<u>157</u>
P 11 50		30		50		30	
P 12 55		33		55		33	
P 13 60		36		60	<u>87</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. Hazelton #1-2
Elevation ----- Formation Mississippi Effective Pay --- Ft. Ticket No. 3562
Date 1/30/80 Sec. 2 Twp. 30S Range 13W County Barber State Kansas
Test Approved by Carl Todd Western Representative Jim Wondra
Formation Test No. 2 Interval Tested from 4320 ft. to 4370 ft. Total Depth 4370 ft.
Packer Depth 4315 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4320 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4360 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4363 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Damac Drilling Rig #1 Drill Collar Length -- I. D. - in.
Mud Type premix-drisc Viscosity 51 Weight Pipe Length -- I. D. - in.
Weight 9.0 Water Loss 8.8 cc. Drill Pipe Length 4299 I. D. 3.8 in.
Chlorides 21,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make --- Serial Number - Anchor Length 50 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 FH in.

Blow: Strong blow throughout flow periods.

Recovered 40 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:35 ~~AM~~ ^{PM} Time Started Off Bottom 6:05 ~~AM~~ ^{PM} Maximum Temperature 127°
Initial Hydrostatic Pressure (A) 2135 P.S.I.
Initial Flow Period Minutes 30 (B) 84 P.S.I. to (C) 76 P.S.I.
Initial Closed In Period Minutes 27 (D) 154 P.S.I.
Final Flow Period Minutes 60 (E) 89 P.S.I. to (F) 87 P.S.I.
Final Closed In Period Minutes 27 (G) 157 P.S.I.
Final Hydrostatic Pressure (H) 2131 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/30/80

Test Ticket No. 3562

Recorder No. 2607

Capacity 4150

Location 4360 Ft.

Clock No. -- Elevation --

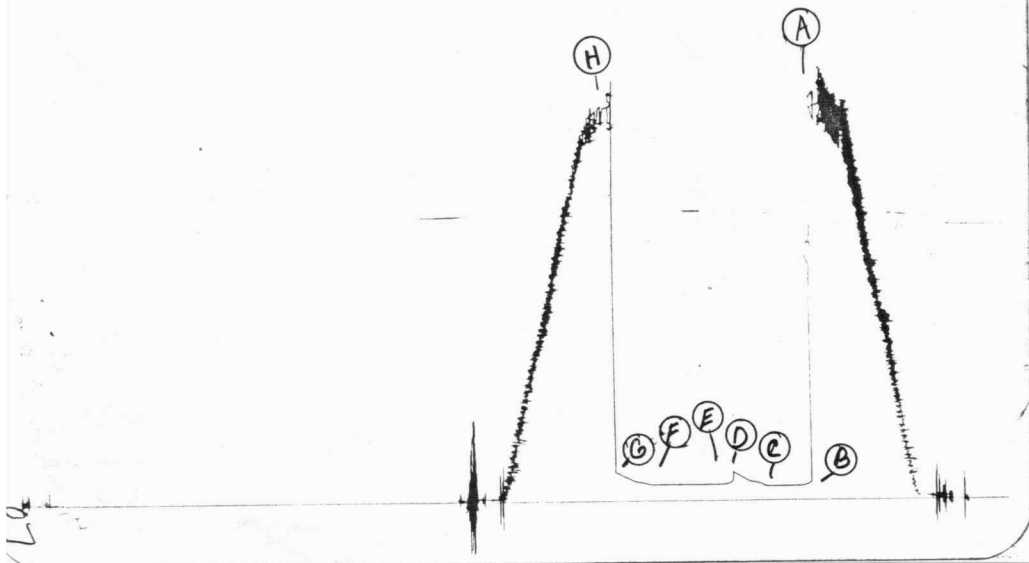
Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2135</u> P.S.I.	Open Tool	<u>3:35P</u>	<u>M</u>
B First Initial Flow Pressure	<u>84</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>76</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>154</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>89</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>87</u> P.S.I.			
G Final Closed-in Pressure	<u>157</u> P.S.I.			
H Final Hydrostatic Mud	<u>2131</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>12</u> Inc.		Breakdown: <u>9</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>84</u>	<u>0</u>	<u>76</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>87</u>
P 2 <u>5</u>	<u>80</u>	<u>3</u>	<u>82</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>93</u>
P 3 <u>10</u>	<u>76</u>	<u>6</u>	<u>93</u>	<u>10</u>	<u>88</u>	<u>6</u>	<u>98</u>
P 4 <u>15</u>	<u>76</u>	<u>9</u>	<u>99</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>103</u>
P 5 <u>20</u>	<u>76</u>	<u>12</u>	<u>101</u>	<u>20</u>	<u>87</u>	<u>12</u>	<u>108</u>
P 6 <u>25</u>	<u>76</u>	<u>15</u>	<u>111</u>	<u>25</u>	<u>87</u>	<u>15</u>	<u>116</u>
P 7 <u>30</u>	<u>76</u>	<u>18</u>	<u>123</u>	<u>30</u>	<u>87</u>	<u>18</u>	<u>127</u>
P 8		<u>21</u>	<u>132</u>	<u>35</u>	<u>87</u>	<u>21</u>	<u>136</u>
P 9		<u>24</u>	<u>144</u>	<u>40</u>	<u>87</u>	<u>24</u>	<u>147</u>
P10		<u>27</u>	<u>154</u>	<u>45</u>	<u>87</u>	<u>27</u>	<u>157</u>
P11		<u>30</u>		<u>50</u>	<u>87</u>	<u>30</u>	
P12				<u>55</u>	<u>87</u>		
P13				<u>60</u>	<u>87</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKt# 3562
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 3563

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

Elevation _____ Formation Viola Eff. Pay _____ Ft.

District Pratt Date 1/31/80 Customer Order No. _____

COMPANY NAME F.G. Holl

ADDRESS 6427 East Kellogg Wichita, Ks 67207

LEASE AND WELL NO. Hazelton #1-2 COUNTY Barber STATE Ks Sec. 2 Twp 30 Rge 13 W

Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested 5

Mail Charts To Same Co. Name _____ Address _____ No. Copies Requested 5

Formation Test No. 3 Interval Tested from 4457 ft. to 4515 ft. Total Depth 4515 ft.

Packer Depth 4452 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4457 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4461 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4464 ft. Recorder Number 3351 Cap. 4000

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

Drilling Contractor Damac Drlg Rig #1 Drill Collar Length _____ I. D. _____ in.

Mud Type Premix-Drispac Viscosity 46 Weight Pipe Length _____ I. D. _____ in.

Weight 9.1 Water Loss 14.8 cc. Drill Pipe Length 4436 I. D. 3.8 in.

Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 58 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: Weak blow throughout flow periods

Recovered 40 ft. of Very Sli Oil Cut Mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 2:45 AM P.M. Time Started Off Bottom 5:15 AM P.M. Maximum Temperature 129.2

Initial Hydrostatic Pressure _____ (A) 2225 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 63 P.S.I. to (C) 63 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 63 P.S.I.

Final Flow Period _____ Minutes 60 (E) 63 P.S.I. to (F) 63 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 63 P.S.I.

Final Hydrostatic Pressure _____ (H) 2204 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 Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ 1550.
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____

TOTAL \$ 550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 1-31-80

Test Ticket No. 3563

Recorder No. 2607

Capacity 4150

Location 4515 Ft.

Clock No. _____ Elevation _____

Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2253</u>	P.S.I.	<u>2:45 P</u>	M
B First Initial Flow Pressure	<u>112</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>61</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
D Initial Closed-in Pressure	<u>61</u>	P.S.I.	<u>60</u>	Mins. <u>60</u> Mins.
E Second Initial Flow Pressure	<u>61</u>	P.S.I.	<u>30</u>	Mins. <u>30</u> Mins.
F Second Final Flow Pressure	<u>61</u>	P.S.I.		
G Final Closed-in Pressure	<u>61</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2208</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>6</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>112</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>61</u>
P 2 <u>5</u>	<u>67</u>	<u>3</u>		<u>5</u>		<u>3</u>	
P 3 <u>10</u>	<u>61</u>	<u>6</u>		<u>10</u>		<u>6</u>	
P 4 <u>15</u>		<u>9</u>		<u>15</u>		<u>9</u>	
P 5 <u>20</u>		<u>12</u>		<u>20</u>		<u>12</u>	
P 6 <u>25</u>		<u>15</u>		<u>25</u>		<u>15</u>	
P 7 <u>30</u>	<u>61</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>	
P10 <u>45</u>		<u>27</u>		<u>45</u>		<u>27</u>	
P11 <u>50</u>		<u>30</u>	<u>61</u>	<u>50</u>		<u>30</u>	<u>61</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>61</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>	

Company F. G. Holl Lease & Well No. Hazelton #1-2
Elevation ----- Formation Viola Effective Pay -- Ft. Ticket No. 3563
Date 1/31/80 Sec. 2 Twp. 30S Range 13W County Barber State Kansas
Test Approved by Carl Todd Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4457 ft. to 4515 ft. Total Depth 4515 ft.

Packer Depth 4452 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4457 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4461 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4464 ft. Recorder Number 3351 Cap. 4000

Below Straddle Recorder Depth = ft. Recorder Number - Cap. -

Drilling Contractor Damac Drilling Rig #1 Drill Collar Length -- I. D. - in.

Mud Type premix-driscap Viscosity 46 Weight Pipe Length -- I. D. - in.

Weight 9.1 Water Loss 14.8 cc. Drill Pipe Length 4436 I. D. 3.8 in.

Chlorides 12,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make -- Serial Number - Anchor Length 58 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 FH in.

Blow: Weak blow throughout flow periods.

Recovered 40 ft. of very slightly oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:45 ~~AM~~ P.M. Time Started Off Bottom 5:15 ~~AM~~ P.M. Maximum Temperature 129°

Initial Hydrostatic Pressure (A) 2253 P.S.I.

Initial Flow Period Minutes 30 (B) 112 P.S.I. to (C) 61 P.S.I.

Initial Closed In Period Minutes 30 (D) 61 P.S.I.

Final Flow Period Minutes 60 (E) 61 P.S.I. to (F) 61 P.S.I.

Final Closed In Period Minutes 30 (G) 61 P.S.I.

Final Hydrostatic Pressure (H) 2208 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/31/80 Recorder No. 2607 Capacity 4150 Test Ticket No. 3563 Location 4515 Ft.
 Clock No. ----- Elevation ----- Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2253	P.S.I.	2:45P	M
B First Initial Flow Pressure	112	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	61	P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	61	P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	61	P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	61	P.S.I.		
G Final Closed-in Pressure	61	P.S.I.		
H Final Hydrostatic Mud	2208	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: 6 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>122</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>61</u>
P 2 <u>5</u>	<u>67</u>	<u>3</u>	<u>61</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>61</u>
P 3 <u>10</u>	<u>61</u>	<u>6</u>	<u>61</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>61</u>
P 4 <u>15</u>	<u>61</u>	<u>9</u>	<u>61</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>61</u>
P 5 <u>20</u>	<u>61</u>	<u>12</u>	<u>61</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>61</u>
P 6 <u>25</u>	<u>61</u>	<u>15</u>	<u>61</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>61</u>
P 7 <u>30</u>	<u>61</u>	<u>18</u>	<u>61</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>61</u>
P 8		<u>21</u>	<u>61</u>	<u>35</u>	<u>61</u>	<u>21</u>	<u>61</u>
P 9		<u>24</u>	<u>61</u>	<u>40</u>	<u>61</u>	<u>24</u>	<u>61</u>
P10		<u>27</u>	<u>61</u>	<u>45</u>	<u>61</u>	<u>27</u>	<u>61</u>
P11		<u>30</u>	<u>61</u>	<u>50</u>	<u>61</u>	<u>30</u>	<u>61</u>
P12				<u>55</u>	<u>61</u>		
P13				<u>60</u>	<u>61</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 3563
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