

OPEN HOLE TESTING INSURANCE AVAILABLE

Details of Policy:

\$35,000 limit per hole

\$ 2,000 Fishing limit

\$ 2,500 Deductible per hole

Operator pays the deductible.

Deductible applies to total loss including tool and fishing with limits as above.

Premium per test - \$50.00 DST No. 1 Test Depth 3710-3726

☒ I want the open hole insurance.

☐ I do not want the open hole insurance.

Legal Description of Location

Sec 13 Twp 30 Rg 13 Barber County

Jim Wondra

Salesman Signature

6/24/83

Date

F.G. Holl

Company Name

William J. Hobbe

Customer Signature



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 19020

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

Elevation 1773 G.P. Formation Douglas Sand Eff. Pay - Ft.

District Pratt Date 6/24/83 Customer Order No. -

COMPANY NAME E.G. Holl

ADDRESS 6427 East Kellogg Wichita, KS 67207

LEASE AND WELL NO. Means #1-13 COUNTY Barber STATE KS Sec. 13 Twp. 30 Rge. 13W

Mail Invoice To Same #1-13 MEANS No. Copies Requested 5

Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 3710 ft. to 3726 ft. Total Depth 3726 ft.

Packer Depth 3705 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3710 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3715 ft. Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 3718 ft. Recorder Number 13552 Cap. 4050

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

Drilling Contractor Sterling Rig #4 Drill Collar Length 310 I. D. 2 1/4 in.

Mud Type Premix Starch Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 20.0 cc. Drill Pipe Length 3379 I. D. 3.8 in.

Chlorides 14,000 P.P.M. Test Tool Length 21 ft. Tool Size 5/200 in.

Jars: Make No Serial Number No Anchor Length 16 ft. Size 5/200 in.

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

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

Blow: Weak blow throughout first flow period
Weak blow died in 5 min on second flow Pushed tool & blew for 7 min

Recovered 30 ft. of Drilling Mud

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Remarks:

RECEIVED
JUN 27 1983

Time On Location 10:00 A.M. Time Pick Up Tool 11:30 A.M. Time Off Location 5:00 P.M.

Time Set Packer(s) 1:05 A.M. Time Started Off Bottom 3:05 P.M. Maximum Temperature 116°

Initial Hydrostatic Pressure (A) 1766 P.S.I.

Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.

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

Final Flow Period Minutes 30 (E) 42 P.S.I. to (F) 52 P.S.I.

Final Closed In Period Minutes 30 (G) 158 P.S.I.

Final Hydrostatic Pressure (H) 1745 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 Jim Worden Thank You

FIELD INVOICE

Open Hole Test \$ 1550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$ 150.00
Telecopier \$
TOTAL \$ 1600.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 6-24 Test Ticket No. 19020
 Recorder No. 13547 Capacity 4225 Location 3715 Ft.
 Clock No. --- Elevation 1773 Well Temperature 116 °F

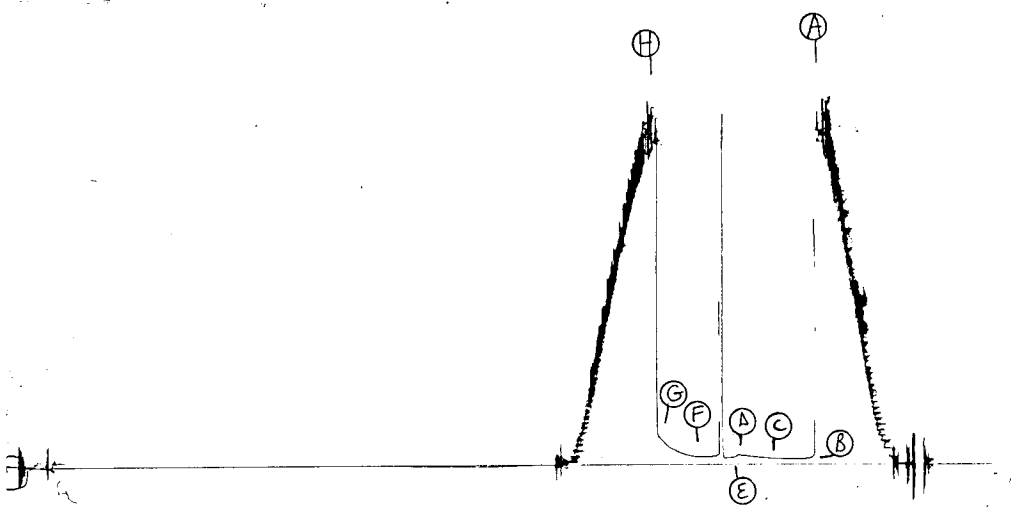
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1880</u> P.S.I.	<u>1:05</u> P	
B First Initial Flow Pressure	<u>31</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>33</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>53</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>36</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>44</u> P.S.I.		
G Final Closed-in Pressure	<u>155</u> P.S.I.		
H Final Hydrostatic Mud	<u>1826</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>7</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>31</u>	<u>0</u>	<u>33</u>	<u>0</u>	<u>36</u>	<u>0</u>	<u>44</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>35</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>48</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>37</u>	<u>10</u>	<u>36</u>	<u>6</u>	<u>53</u>
P 4 <u>15</u>	<u>32</u>	<u>9</u>	<u>39</u>	<u>15</u>	<u>48</u>	<u>9</u>	<u>59</u>
P 5 <u>20</u>	<u>32</u>	<u>12</u>	<u>41</u>	<u>20</u>	<u>42</u>	<u>12</u>	<u>68</u>
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>43</u>	<u>25</u>	<u>42</u>	<u>15</u>	<u>78</u>
P 7 <u>30</u>	<u>33</u>	<u>18</u>	<u>45</u>	<u>30</u>	<u>44</u>	<u>18</u>	<u>89</u>
P 8 <u>35</u>		<u>21</u>	<u>47</u>	<u>35</u>		<u>21</u>	<u>105</u>
P 9 <u>40</u>		<u>24</u>	<u>50</u>	<u>40</u>		<u>24</u>	<u>128</u>
P10 <u>45</u>		<u>27</u>	<u>53</u>	<u>45</u>		<u>27</u>	<u>155</u>
P11 <u>50</u>		<u>30</u>		<u>50</u>		<u>30</u>	
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>35</u>		<u>60</u>		<u>35</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>	

TKT # 19020

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/24/83 TICKET #19020
CUSTOMER: F G HOLL LEASE: MEANS
WELL: 1-13 TEST: 1 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1778 FORMATION: DOUGLAS SAND
SECTION: 13 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #13547 RANGE: 4225 CLOCK: 12

INTERVAL TEST FROM: 3710 FT TO: 3726 FT TOTAL DEPTH: 3726 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3705 FT SIZE: 6 5/8 IN PACKER DEPTH: 3710 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: PRE-STAR. VISCOSITY: 42
WEIGHT: 9.3 WATER LOSS (CC): 20.0
CHLORIDES (P.P.M.): 14000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 310 FT I.D.: 2 1/4 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3379 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 16 FT SIZE: 5 1/2 OD IN
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: INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT.
FINAL FLOW PERIOD WEAK BLOW-
DIED IN 5 MINUTES. FLUSHED TOOL &
BLEW FOR 7 MINUTES.

RECOVERED: 30	FT	OF: DRILLING MUD
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 1:05 PM	TIME STARTED OFF BOTTOM: 3:05 PM
WELL TEMPERATURE: 116 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1880 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 31 PSI TO (C) 33 PSI
INITIAL CLOSED IN PERIOD MIN: 27	(D) 53 PSI
FINAL FLOW PERIOD MIN: 30	(E) 36 PSI TO (F) 44 PSI
FINAL CLOSED IN PERIOD MIN: 27	(G) 155 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1826 PSI

TICKET #19020
LEASE: MEANS
GEOLOGIST: W J STOBBE
DOUGLAS SAND
30S
STATE: KANSAS
CLOCK: 12

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TIME - GIVEN TIME - ACTUAL

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	31	0	33	0	36	0	44
2	5	31	3	35	5	36	3	48
3	10	31	6	37	10	36	6	53
4	15	32	9	39	15	48	9	59
5	20	32	12	41	20	42	12	68
6	25	33	15	43	25	42	15	78
7	30	33	18	45	30	44	18	89
8			21	47			21	105
9			24	50			24	128
10			27	53			27	155

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº 1227

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

Elevation 1773 gr Formation Mush. Eff. Pay Ft.

District Pratt Date 6-26-83 Customer Order No.

COMPANY NAME F.G. Hall
ADDRESS 6427 E. Kellogg Wichita, Ks. 67207
LEASE AND WELL NO. Means #1-13 COUNTY Barber STATE Ks. Sec. 13 Twp. 30 Rge. 13W
Mail Invoice To #1-13 MEANS No. Copies Requested
Co. Name Address
Mail Charts To No. Copies Requested
Address

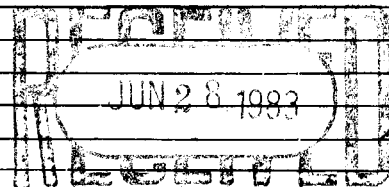
Formation Test No. 2 Interval Tested From 4265 ft. to 4309 ft. Total Depth 4309 ft.
Packer Depth 4260 ft. Size 6 5/8 in. Packer Depth ft. Size in.
Packer Depth 4265 ft. Size 6 5/8 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4268 ft. Recorder Number 1566 Cap. 4300
Bottom Recorder Depth (Outside) 4272 ft. Recorder Number 3086 Cap. 4500
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Sterling #4 Drill Collar Length 310 I. D. 2.2 in.
Mud Type Starch Viscosity 46 Weight Pipe Length 455 I. D. 3.2 in.
Weight 9 lb Water Loss 10.4 cc. Drill Pipe Length 3479' I. D. 3.8 in.
Chlorides 14,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
Jars: Make Serial Number Anchor Length 44 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Fair pinch Building to Strong & EP - 4 inch depleting to 1 inch F-FP

Recovered 45' ft. of dolomite w/a few specks of oil
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used 1 Remarks:



Time On Location 10:00 A.M. P.M. Time Pick Up Tool 11:30 A.M. P.M. Time Off Location 5:00 A.M. P.M.
Time Set Packer(s) 12:30 P.M. Time Started Off Bottom 3:00 A.M. P.M. Maximum Temperature 123°
Initial Hydrostatic Pressure (A) 2199 P.S.I.
Initial Flow Period Minutes 30 (B) 64 P.S.I. to (C) 54 P.S.I.
Initial Closed In Period Minutes 30 (D) 75 P.S.I.
Final Flow Period Minutes 60 (E) 54 P.S.I. to (F) 54 P.S.I.
Final Closed In Period Minutes 30 (G) 86 P.S.I.
Final Hydrostatic Pressure (H) 2243 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 William J. Stobbe
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

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 \$ 450.00
Telecopier \$
TOTAL \$ 645.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-26 Test Ticket No. 1227
 Recorder No. 1566 Capacity 4300 Location 4268 Ft
 Clock No. --- Elevation 1773 Well Temperature 123 °F

Point Pressure
 A Initial Hydrostatic Mud 2196 P.S.I.
 B First Initial Flow Pressure 45 P.S.I.
 C First Final Flow Pressure 45 P.S.I.
 D Initial Closed-in Pressure 84 P.S.I.
 E Second Initial Flow Pressure 49 P.S.I.
 F Second Final Flow Pressure 49 P.S.I.
 G Final Closed-in Pressure 78 P.S.I.
 H Final Hydrostatic Mud 2196 P.S.I.

Time Given 12:30 P M Time Computed
 Open Tool 30 Mins 30 Mins
 First Flow Pressure 30 Mins 30 Mins
 Initial Closed-in Pressure 60 Mins 60 Mins
 Second Flow Pressure 30 Mins 30 Mins
 Final Closed-in Pressure

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: 13 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.
P 1 0	<u>45</u>
P 2 5	
P 3 10	
P 4 15	
P 5 20	
P 6 25	
P 7 30	<u>45</u>
P 8 35	
P 9 40	
P 10 45	
P 11 50	
P 12 55	
P 13 60	
P 14	
P 15	
P 16	
P 17	
P 18	
P 19	
P 20	

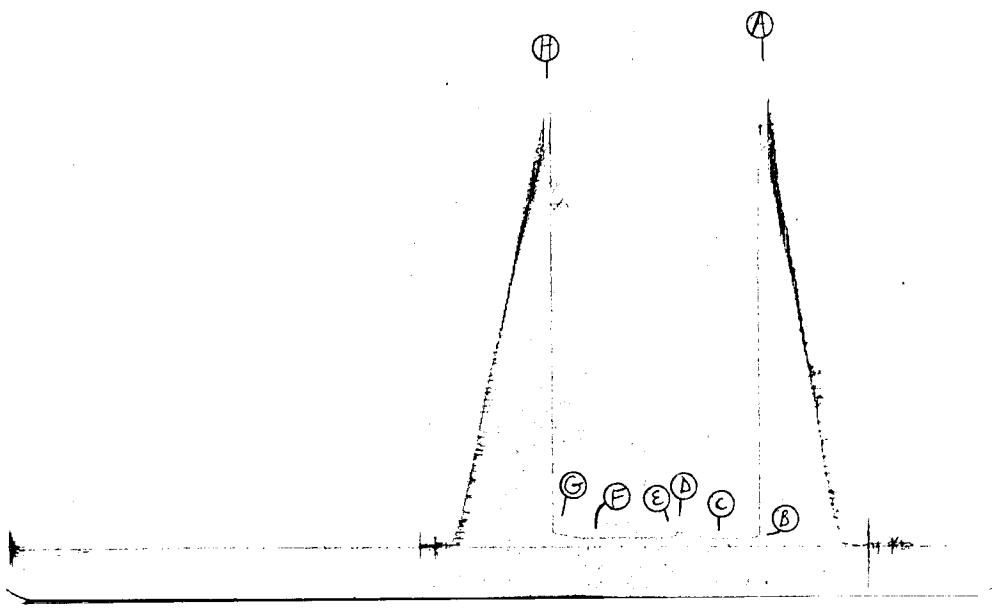
Point Minutes	Press.
0	<u>45</u>
3	<u>45</u>
6	<u>47</u>
9	<u>52</u>
12	<u>57</u>
15	<u>65</u>
18	<u>68</u>
21	<u>73</u>
24	<u>78</u>
27	<u>80</u>
30	<u>84</u>
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Point Minutes	Press.
0	<u>49</u>
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	<u>49</u>
65	
70	
75	
80	
85	
90	

Point Minutes	Press.
0	<u>49</u>
3	<u>49</u>
6	<u>49</u>
9	<u>50</u>
12	<u>52</u>
15	<u>56</u>
18	<u>59</u>
21	<u>65</u>
24	<u>69</u>
27	<u>73</u>
30	<u>78</u>
33	
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39	
42	
45	
48	
51	
54	
57	
60	

TKT # 1227

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/26/83
CUSTOMER: F G HOLL
WELL: 1-13
ELEVATION (KB): 1778
SECTION: 13
RANGE: 13W
GAUGE SN #1566

TEST: 2
FORMATION: MISSISSIPPI
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4300

TICKET #1227
LEASE: MEANS
GEOLOGIST: W J STOBBE
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4265 FT TO: 4309 FT TOTAL DEPTH: 4309 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4260 FT SIZE: 6 5/8 IN PACKER DEPTH: 4265 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: STARCH
WEIGHT: 9.6
CHLORIDES (P.P.M.): 16000
JARS - MAKE:
DID WELL FLOW? NO
DRILL COLLAR LENGTH: 310 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: 455 FT I.D.: 3.2 IN
DRILL PIPE LENGTH: 3479 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 44 FT SIZE: 5 1/2 IN
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 IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: STARCH
WEIGHT: 9.6
CHLORIDES (P.P.M.): 16000
JARS - MAKE:
DID WELL FLOW? NO
DRILL COLLAR LENGTH: 310 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: 455 FT I.D.: 3.2 IN
DRILL PIPE LENGTH: 3479 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 44 FT SIZE: 5 1/2 IN
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 IN

BLOW: INITIAL FLOW PERIOD FAIR 6 INCH
BLOW BUILDING TO STRONG BLOW.
FINAL FLOW PERIOD 4 INCH DEPLEATING
TO 1 INCH BLOW.

RECOVERED: 45 FT OF: DRILLING MUD WITH A FEW SPECKS OF OIL
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 12:30 PM
WELL TEMPERATURE: 123 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2196 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 45 PSI TO (C) 45 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 84 PSI
FINAL FLOW PERIOD MIN: 60 (E) 49 PSI TO (F) 49 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 78 PSI
FINAL HYDROSTATIC PRESSURE (H) 2196 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº 1228

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

Elevation 1773 gr Formation SS Eff. Pay OK Ft.

District

Pratt

Date

6-28-83

Customer Order No.

COMPANY NAME

F. G. Holl

ADDRESS

6427 E. Kellogg Wichita, Ks. 67207

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

Mail Invoice To

#1-13 MEANS

No. Copies Requested

Mail Charts To

Co. Name

Address

No. Copies Requested

Address

Formation Test No. 3 Interval Tested From 4556 ft. to 4600 ft. Total Depth 4600 ft.

Packer Depth 4551 ft. Size 6 5/8 in.

Packer Depth ft. Size in.

Packer Depth 4556 ft. Size 6 5/8 in.

Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4559 ft.

Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4563 ft.

Recorder Number 3086 Cap. 4500

Below Saddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor Sterling #4

Drill Collar Length 310 I. D. 2.2 in.

Mud Type Starch Viscosity 50

Weight Pipe Length 455 I. D. 3.2 in.

Weight 9.8 Water Loss 13.6 cc.

Drill Pipe Length 3770' I. D. 3.8 in.

Chlorides 22,000 P.P.M.

Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number

Anchor Length 44 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 in.

Blow: very wk FFP + FFP

Recovered 40' ft. of dark mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks:

RECEIVED
JUN 29 1983
RECEIVED

Time On Location 11:30 A.M. Time Pick Up Tool 1:15 P.M. Time Off Location 8:15 A.M.

Time Set Packer(s) 3:00 A.M. Time Started Off Bottom 5:30 A.M. Maximum Temperature 124°

Initial Hydrostatic Pressure (A) 2417 P.S.I.

Initial Flow Period 30 Minutes (B) 54 P.S.I. to (C) 43 P.S.I.

Initial Closed In Period 30 Minutes (D) 1398 P.S.I.

Final Flow Period 60 Minutes (E) 64 P.S.I. to (F) 64 P.S.I.

Final Closed In Period 30 Minutes (G) 1312 P.S.I.

Final Hydrostatic Pressure (H) 2449 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 authorized representative

Western Representative

Mike Rogers Thank Again!

FIELD INVOICE

Open Hole Test \$ 595.00
Miscellaneous \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$ 50.00
Telecopier \$
TOTAL \$ 645.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-28 Test Ticket No. 1228
 Recorder No. 1566 Capacity 4300 Location 4559 Ft.
 Clock No. --- Elevation 1773 Well Temperature 124 °F

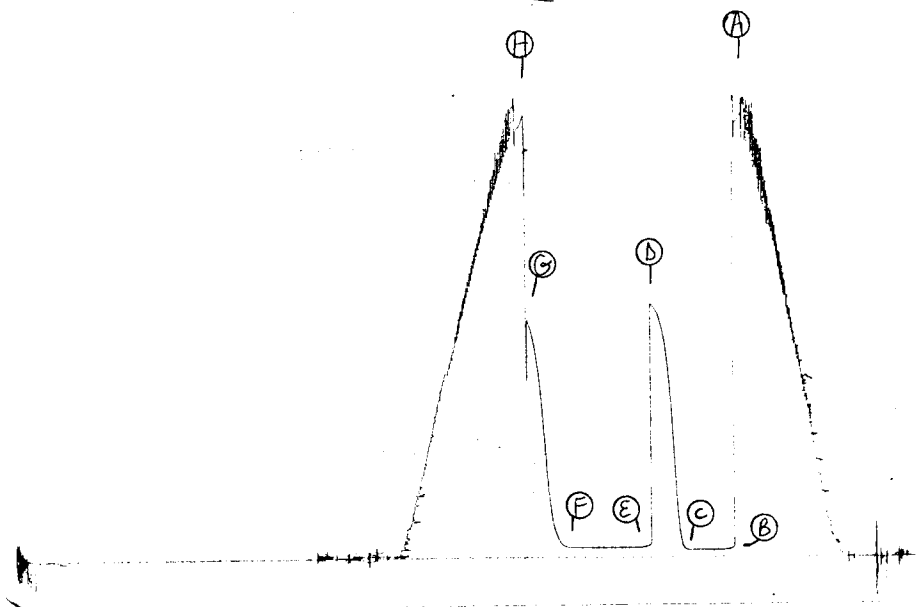
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2413</u> P.S.I.	<u>3:00</u> A	
B First Initial Flow Pressure	<u>42</u> P.S.I.	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>42</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1404</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>56</u> P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>56</u> P.S.I.		
G Final Closed-in Pressure	<u>1318</u> P.S.I.		
H Final Hydrostatic Mud	<u>2374</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>12</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>42</u>	<u>0</u>	<u>42</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>56</u>
P 2 <u>5</u>		<u>3</u>	<u>71</u>	<u>5</u>		<u>3</u>	<u>64</u>
P 3 <u>10</u>		<u>6</u>	<u>214</u>	<u>10</u>		<u>6</u>	<u>80</u>
P 4 <u>15</u>		<u>9</u>	<u>489</u>	<u>15</u>		<u>9</u>	<u>121</u>
P 5 <u>20</u>		<u>12</u>	<u>779</u>	<u>20</u>		<u>12</u>	<u>203</u>
P 6 <u>25</u>		<u>15</u>	<u>1030</u>	<u>25</u>		<u>15</u>	<u>381</u>
P 7 <u>30</u>		<u>18</u>	<u>1199</u>	<u>30</u>		<u>18</u>	<u>641</u>
P 8 <u>35</u>	<u>42</u>	<u>21</u>	<u>1300</u>	<u>35</u>		<u>21</u>	<u>869</u>
P 9 <u>40</u>		<u>24</u>	<u>1366</u>	<u>40</u>		<u>24</u>	<u>1056</u>
P10 <u>45</u>		<u>27</u>	<u>1399</u>	<u>45</u>		<u>27</u>	<u>1184</u>
P11 <u>50</u>		<u>30</u>	<u>1404</u>	<u>50</u>		<u>30</u>	<u>1279</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>1318</u>
P13 <u>60</u>		<u>35</u>		<u>60</u>	<u>56</u>	<u>35</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>	

TKT # 1228

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/28/83 TICKET #1228
CUSTOMER: F G HOLL LEASE: MEANS
WELL: 1-13 TEST: 3 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1778 FORMATION: SIMPSON SAND
SECTION: 13 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 4556 FT TO: 4600 FT TOTAL DEPTH: 4600 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4551 FT SIZE: 6 5/8 IN PACKER DEPTH: 4556 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING

MUD TYPE: STARCH VISCOSITY: 50
WEIGHT: 9.8 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 22000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	310	FT	I.D.:	2.2	IN
WEIGHT PIPE LENGTH:	455	FT	I.D.:	3.2	IN
DRILL PIPE LENGTH:	3770	FT	I.D.:	3.8	IN
TEST TOOL LENGTH:	21	FT	TOOL SIZE:	5 1/2	IN
ANCHOR LENGTH:	44	FT	SIZE:	5 1/2	IN
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	IN

BLOW: VERY WEAK BLOW THROUGHOUT TEST.

RECOVERED:	40	FT	OF:	DRILLING MUD
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	

REMARKS:

TIME SET PACKER(S): 3:00 AM
WELL TEMPERATURE: 124 °F

TIME STARTED OFF BOTTOM: 5:30 AM

INITIAL HYDROSTATIC PRESSURE:		(A) 2413	PSI	
INITIAL FLOW PERIOD	MIN: 35	(B) 42	PSI TO (C) 42	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 1404	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 56	PSI TO (F) 56	PSI
FINAL CLOSED IN PERIOD	MIN: 33	(G) 1318	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2374	PSI	

