

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 07/11/84

F. G. HOLL
6427 EAST KELLOGG
WICHITA, KANSAS 67207

WELL REPORT NO. 5595

UNIT NO. 1

DISTRICT

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

-16

LAWRENZ

FARM

BARBER

KS

SECTION

16

TWP.

30S

RANGE

12W

DRILL STEM TEST FROM 2749' TO 2811' TOTAL DEPTH 2811' (TEST 1) \$ 550.00
INSURANCE 50.00

TOTAL \$ 600.00

DISCOUNT

\$ 6.00

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

5595

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



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 5595

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

WICHITA, KANSAS 67201

Elevation _____ Formation Indian Cave Eff. Pay _____ Ft.

District 12 Pratt Date 7-11-84 Customer Order No. _____

COMPANY NAME F. G. Hall

ADDRESS 6427 E. Kellogg, Wichita KS 67207

LEASE AND WELL NO. Lawrenz #1-16 COUNTY Barber STATE KS Sec. 16 Twp. 30s Rge. 12w

Mail Invoice To Same #1-16 LAWRENZ No. Copies Requested Reg
Co. Name _____ Address _____

Mail Charts To Same No. Copies Requested Reg
Address _____

Formation Test No. 1 Interval Tested From 2749 ft. to 2811 ft. Total Depth 2811 ft.

Packer Depth 2744 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2749 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2801 ft. Recorder Number 13402 Cap. 4025

Bottom Recorder Depth (Outside) 2804 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor Sterling #2 Drill Collar Length 420 I. D. 2.2 in.

Mud Type Starch Viscosity 44 Weight Pipe Length _____ I. D. _____ in.

Weight 5.7 Water Loss 14.4 cc. Drill Pipe Length 2289 2309 I. D. 3.8 in.

Chlorides 58,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ Anchor Length 62 ft. Size 5 1/2 OD in.

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

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

Blow: Very Weak thru I.F. NO Blow F.F.

Recovered 5 ft. of Mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

Time On Location 5:00 A.M. Time Pick Up Tool 6:00 A.M. Time Off Location 12:30 A.M.

Time Set Packer(s) 7:55 A.M. Time Started Off Bottom 10:25 A.M. Maximum Temperature 110°

Initial Hydrostatic Pressure _____ (A) 1484 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) 78 P.S.I.

Final Flow Period _____ Minutes 60 (E) 59 P.S.I. to (F) 59 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 68 P.S.I.

Final Hydrostatic Pressure _____ (H) 1484 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 Bob F. Malloy
Signature of Customer or his authorized representative

Western Representative 1625

FIELD INVOICE

Open Hole Test \$ 350.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 550.00

WESTERN TESTING CO., INC.

Pressure Data

Date 7-11 Test Ticket No. 5595
 Recorder No. 13402 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1480</u> P.S.I.		
B First Initial Flow Pressure	<u>49</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>49</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>82</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.		
G Final Closed-in Pressure	<u>63</u> P.S.I.		
H Final Hydrostatic Mud	<u>1470</u> P.S.I.		

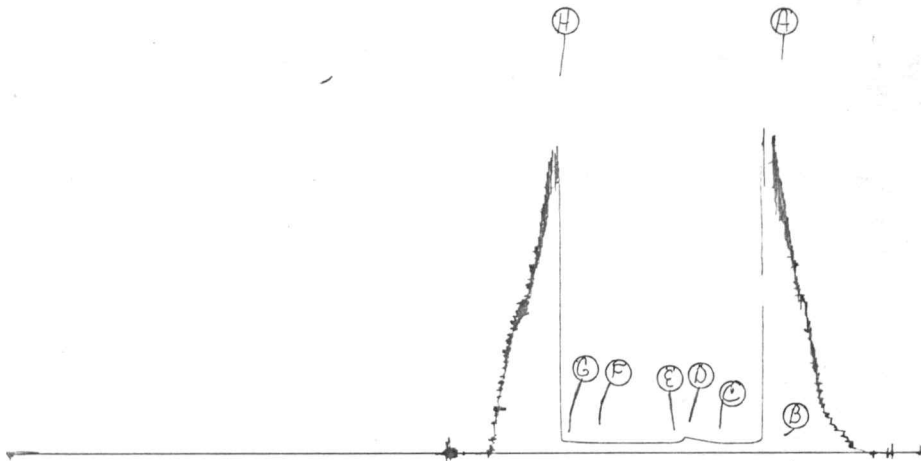
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>11</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>49</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>51</u>
P 2 <u>5</u>		<u>3</u>	<u>53</u>	<u>5</u>		<u>3</u>	<u>52</u>
P 3 <u>10</u>		<u>6</u>	<u>57</u>	<u>10</u>		<u>6</u>	<u>53</u>
P 4 <u>15</u>		<u>9</u>	<u>61</u>	<u>15</u>		<u>9</u>	<u>54</u>
P 5 <u>20</u>		<u>12</u>	<u>65</u>	<u>20</u>		<u>12</u>	<u>55</u>
P 6 <u>25</u>		<u>15</u>	<u>69</u>	<u>25</u>		<u>15</u>	<u>57</u>
P 7 <u>30</u>	<u>49</u>	<u>18</u>	<u>73</u>	<u>30</u>		<u>18</u>	<u>59</u>
P 8 <u>35</u>		<u>21</u>	<u>76</u>	<u>35</u>		<u>21</u>	<u>60</u>
P 9 <u>40</u>		<u>24</u>	<u>79</u>	<u>40</u>		<u>24</u>	<u>61</u>
P 10 <u>45</u>		<u>27</u>	<u>82</u>	<u>45</u>		<u>27</u>	<u>62</u>
P 11 <u>50</u>		<u>30</u>		<u>50</u>		<u>30</u>	<u>63</u>
P 12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P 13 <u>60</u>		<u>36</u>		<u>60</u>	<u>51</u>	<u>36</u>	
P 14		<u>39</u>		<u>65</u>		<u>39</u>	
P 15		<u>42</u>		<u>70</u>		<u>42</u>	
P 16		<u>45</u>		<u>75</u>		<u>45</u>	
P 17		<u>48</u>		<u>80</u>		<u>48</u>	
P 18		<u>51</u>		<u>85</u>		<u>51</u>	
P 19		<u>54</u>		<u>90</u>		<u>54</u>	
P 20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

13402
DST#1

TKT# 5545

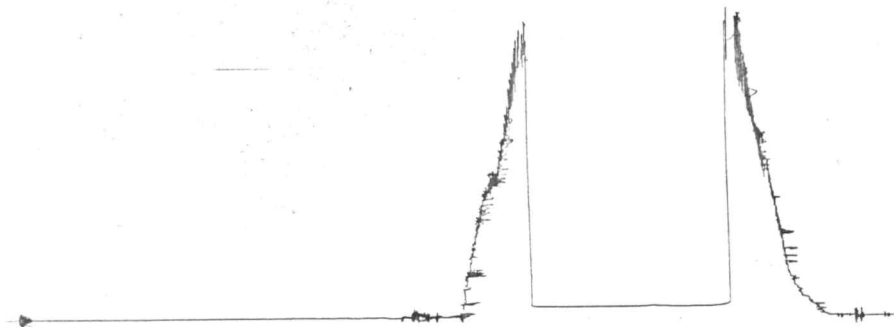
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1.559
DST #1

TKT #5595

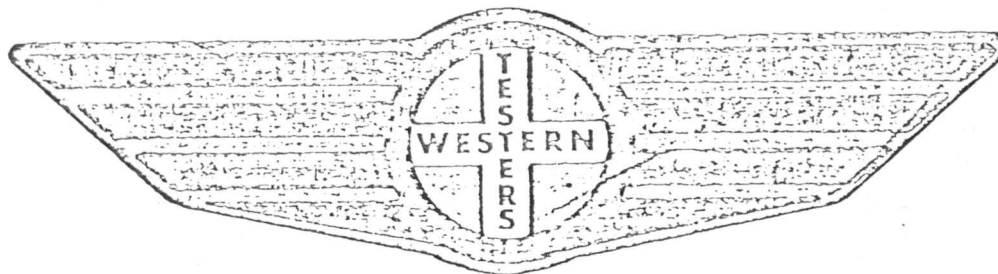
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company F.G. Holl Lease and Well No. #1-16 Lawrenz Sec. 16 Twp. 30S Rge. 12W Test No. 1 Date 7-11-67

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/11/84
CUSTOMER: F.G. HOLL
WELL: 1-16
ELEVATION (KB): 0
SECTION: 16
RANGE: 12W
GAUGE SN #13402
TICKET #5595
LEASE: LAWRENZ
GEOLOGIST: MALLOY
FORMATION: INDIAN CAVE
TOWNSHIP: 30S
COUNTY: BARBER
STATE: KANSAS
RANGE: 4025
CLOCK: 12

INTERVAL TEST FROM: 2749 FT TO: 2811 FT TOTAL DEPTH: 2811 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2744 FT SIZE: 6 3/4 IN Packer DEPTH: 2749 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: STARCH VISCOSITY: 44
WEIGHT: 9.7 WATER LOSS (CC): 14.4
CHLORIDES (P.P.M.): 58000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 420 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2309 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 62 FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: INITIAL FLOW PERIOD; VERY WEAK BLOW. FINAL FLOW
PERIOD; NO BLOW.

RECOVERED: 5	FT	OF: 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): 7:55 A.M.	TIME STARTED OFF BOTTOM: 10:25 A.M.
WELL TEMPERATURE: 110 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1480 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 49 PSI TO (C) 49 PSI
INITIAL CLOSED IN PERIOD MIN: 27	(D) 82 PSI
FINAL FLOW PERIOD MIN: 60	(E) 51 PSI TO (F) 51 PSI
FINAL CLOSED IN PERIOD MIN: 30	(G) 63 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1470 PSI

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 07/14/84

F. G. HOLL
6427 EAST KELLOGG
WICHITA, KANSAS 67207

WELL REPORT NO. 5596

UNIT NO. 12

DISTRICT

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

-16

LAWRENZ

FARM

BARBER

KS

SECTION

16

TWP.

30S

RANGE

12W

DRILL STEM TEST FROM 4189' TO 4232' TOTAL DEPTH 4232' (TEST 2) \$ 595.00
CIRC. SUB. 35.00
INSURANCE 50.00

TOTAL \$ 680.00

DISCOUNT

\$ 6.80

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

5596

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



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº

5596

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

WICHITA, KANSAS 67201

Elevation

Formation

K.C.

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

Drill Collar Length I. D. in.

Mud Type Viscosity

Weight Pipe Length I. D. in.

Weight Water Loss cc.

Drill Pipe Length I. D. in.

Chlorides P.P.M.

Test Tool Length ft. Tool Size in.

Jars: Make Serial Number

Anchor Length ft. Size in.

Did Well Flow? Reversed Out

Surface Choke Size in. Bottom Choke Size in.

Main Hole Size in. Tool Joint Size in.

Blow: Strong Thru Both Flow Periods.

Recovered ft. of Gassy Muddy Water - Few Oil Specks

Recovered ft. of Water Chlorides 100,000 ppm.

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 11:30 A.M. Time Pick Up Tool 12:30 A.M. Time Off Location 8:30 A.M.

Time Set Packer(s) 2:25 A.M. Time Started Off Bottom 4:55 A.M. Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 2087 P.S.I.

Initial Flow Period Minutes 30 (B) 196 P.S.I. to (C) 472 P.S.I.

Initial Closed In Period Minutes 30 (D) 1554 P.S.I.

Final Flow Period Minutes 60 (E) 531 P.S.I. to (F) 867 P.S.I.

Final Closed In Period Minutes 30 (G) 1554 P.S.I.

Final Hydrostatic Pressure (H) 2087 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

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test \$595.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$35.00
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$630.00

WESTERN TESTING CO., INC.

Pressure Data

Date 7-14
Recorder No. 13402
Clock No.

Test Ticket No. 5596
Location Ft.
Well Temperature °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2091</u>	P.S.I.
B First Initial Flow Pressure	<u>201</u>	P.S.I.
C First Final Flow Pressure	<u>480</u>	P.S.I.
D Initial Closed-in Pressure	<u>1566</u>	P.S.I.
E Second Initial Flow Pressure	<u>536</u>	P.S.I.
F Second Final Flow Pressure	<u>881</u>	P.S.I.
G Final Closed-in Pressure	<u>1568</u>	P.S.I.
H Final Hydrostatic Mud	<u>2071</u>	P.S.I.

	Time Given	M	Time Computed
Open Tool	<u>30</u>	Mins.	<u>30</u> Mins.
First Flow Pressure	<u>30</u>	Mins.	<u>30</u> Mins.
Initial Closed-in Pressure	<u>60</u>	Mins.	<u>60</u> Mins.
Second Flow Pressure	<u>30</u>	Mins.	<u>30</u> 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.

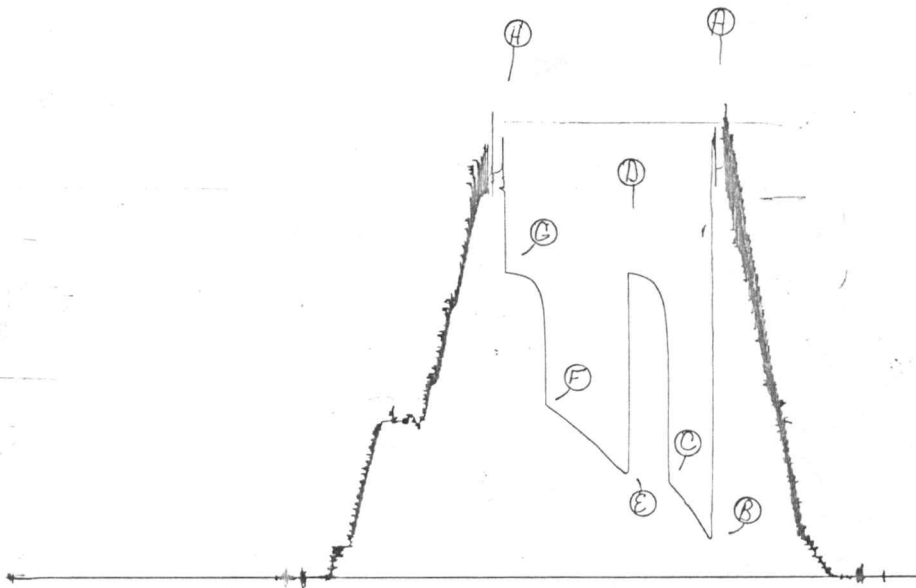
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>201</u>	0	<u>480</u>	0	<u>536</u>	0	<u>881</u>
P 2 5	<u>236</u>	3	<u>1291</u>	5	<u>548</u>	3	<u>1445</u>
P 3 10	<u>295</u>	6	<u>1432</u>	10	<u>574</u>	6	<u>1495</u>
P 4 15	<u>348</u>	9	<u>1481</u>	15	<u>611</u>	9	<u>1526</u>
P 5 20	<u>394</u>	12	<u>1513</u>	20	<u>647</u>	12	<u>1540</u>
P 6 25	<u>435</u>	15	<u>1530</u>	25	<u>682</u>	15	<u>1549</u>
P 7 30	<u>480</u>	18	<u>1541</u>	30	<u>710</u>	18	<u>1555</u>
P 8 35		21	<u>1551</u>	35	<u>738</u>	21	<u>1561</u>
P 9 40		24	<u>1557</u>	40	<u>767</u>	24	<u>1564</u>
P10 45		27	<u>1562</u>	45	<u>796</u>	27	<u>1566</u>
P11 50		30	<u>1566</u>	50	<u>823</u>	30	<u>1568</u>
P12 55		33		55	<u>852</u>	33	
P13 60		36		60	<u>881</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	

13402

DST#2

TKT# 5596

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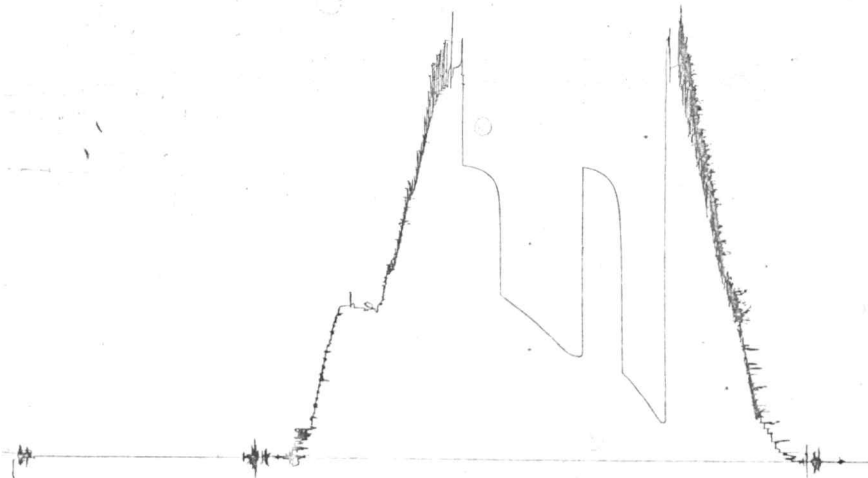


1559.

DST #2

TKT # 5596

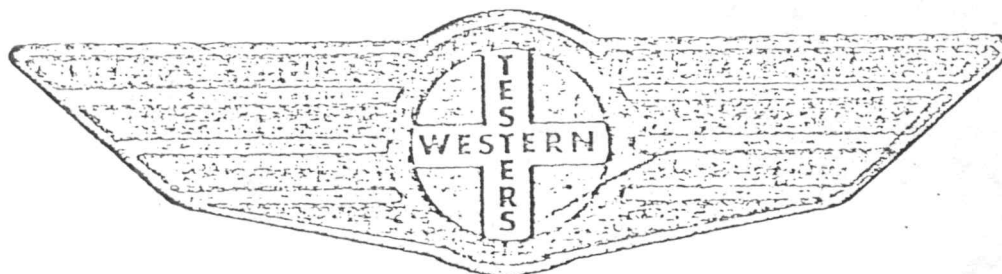
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ F.G. HOLL
Lease and Well No. _____ #1-16 Lawrenz
Sec. _____ 16
Twp. _____ 30S
Rge. _____ 14W
Test No. _____
Date _____

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/14/84
CUSTOMER: F.G. HOLL
WELL: 1-16
ELEVATION (KB): 0
SECTION: 16
RANGE: 12W
GAUGE SN #13402

TEST: 2
FORMATION: KANSAS CITY
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4025

TICKET #5596
LEASE: LAWRENZ
GEOLOGIST: MALLOY
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4189 FT TO: 4232 FT TOTAL DEPTH: 4232 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4184 FT SIZE: 6 3/4 IN Packer DEPTH: 4189 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING

MUD TYPE: CHEMICAL VISCOSITY: 50
WEIGHT: 9.5 WATER LOSS (CC): 11.8
CHLORIDES (P.P.M.): 14000

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

DRILL COLLAR LENGTH: 420 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3749 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 43 FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 240	FT	OF: GASSY MUDDY WATER; FEW OIL SPECKS
RECOVERED: 1810	FT	OF: WATER
RECOVERED:	FT	OF: CHLORIDES 100000 PPM
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 2:25 A.M.
WELL TEMPERATURE: 118 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 30
FINAL FLOW PERIOD MIN: 60
FINAL CLOSED IN PERIOD MIN: 30
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 4:55 A.M.

(A) 2091	PSI
(B) 201	PSI TO (C) 480
(C) 1566	PSI
(E) 536	PSI TO (F) 881
(G) 1568	PSI
(H) 2071	PSI

10

TICKET #5596
LEASE: LAWRENZ
GEOLOGIST: MALLOY
KANSAS CITY
305
STATE: KANSAS
CLOCK: 12

PSI
PSI
PSI
PSI
PSI
PSI
PSI
PSI
'E

E - ACTUAL
MIN
MIN
MIN
MIN

OWN

D FLOW PRESSURE	FINAL MIN	SHUT-IN PRESSURE
536	0	881
548	3	1445
574	6	1495
611	9	1526
647	12	1540
682	15	1549
710	18	1555
738	21	1561
767	24	1564
796	27	1566
823	30	1568
852		
881		



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 07/15/84

F. G. HOLL
6427 EAST KELLOGG
WICHITA, KANSAS 67207

WELL REPORT NO. 5597

UNIT NO.

DISTRICT

12

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO

OWNER

CONTRACTOR

WELL NO.

1-16

LAWRENZ

FARM

BARBER

KS

SECTION

16

TWP.

30S

RANGE

12W

DRILL STEM TEST FROM 4350' TO 4394' TOTAL DEPTH 4394' (TEST 3) \$ 595.00
INSURANCE 50.00

TOTAL \$ 645.00

DISCOUNT

\$ 6.45

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

5597

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



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº

5597

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

WICHITA, KANSAS 67201

Elevation

Formation

Miss.

Eff. Pay Ft.

District

Date

7-15-84

Customer Order No.

COMPANY NAME

F.G. Hall

ADDRESS

6427 E. Kellogg Wichita KS

67207

LEASE AND WELL NO.

Lawrenz #1-16

COUNTY

Barber

STATE

KS

Sec.

16

Twp.

30s

Rge.

12w

Mail Invoice To

Same #1-16

LAWRENZ

No. Copies Requested

Reg

Mail Charts To

Same

Address

No. Copies Requested

Reg

Address

Formation Test No.

3

Interval Tested From

4350

ft. to

4394

ft. Total Depth

4394

ft.

Packer Depth

4345

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Packer Depth

4350

ft.

Size

6 3/4

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

4384

ft.

Recorder Number

13402

Cap.

4025

Bottom Recorder Depth (Outside)

4387

ft.

Recorder Number

1559

Cap.

4200

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Sterling #2

Drill Collar Length

420

I. D.

2.2

in.

Mud Type

Chem.

Viscosity

50

Weight Pipe Length

I. D.

in.

Weight

9.4

Water Loss

18.4

cc.

Drill Pipe Length

3910

I. D.

3.8

in.

Chlorides

22,000

P.P.M.

Test Tool Length

30

ft.

Tool Size

5 1/2 OD

in.

Jars: Make

Serial Number

Anchor Length

44

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 1/8

in.

Tool Joint Size

4 1/2 x 1/4

in.

Blow:

Very Weak thru J.F. - NO
No Blow After Flush.

Blow F.F. - Flushed tool twice -

Recovered

10

ft. of

Mud

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

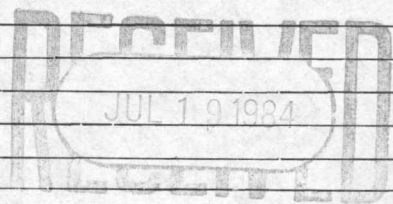
Recovered

ft. of

Chlorides

P.P.M. Sample Jars used

Remarks:



Time On Location

1:30

A.M.
P.M.

Time Pick Up Tool

2:30

A.M.
P.M.

Time Off Location

9:00

A.M.
P.M.

Time Set Packer(s)

4:30

A.M.
P.M.

Time Started Off Bottom

6:30

A.M.
P.M.

Maximum Temperature

119°

Initial Hydrostatic Pressure

(A)

2168

P.S.I.

Initial Flow Period

Minutes

30

(B)

147

P.S.I. to (C)

236

P.S.I.

Initial Closed In Period

Minutes

30

(D)

265

P.S.I.

Final Flow Period

Minutes

30

(E)

265

P.S.I. to (F)

265

P.S.I.

Final Closed In Period

Minutes

30

(G)

334

P.S.I.

Final Hydrostatic Pressure

(H)

2147

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

Bob F. Mallory

Signature of Customer or his authorized representative

Western Representative

W. F. Pritchard

1625

Thank you

FIELD INVOICE

Open Hole Test

\$ 595.00

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

Telecopier

\$

TOTAL

\$ 595.00

WESTERN TESTING CO., INC.

Pressure Data

Date 7-15 Test Ticket No. 5597
 Recorder No. 13402 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2152</u> P.S.I.		
B First Initial Flow Pressure	<u>139</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>212</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>275</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>291</u> P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>284</u> P.S.I.		
G Final Closed-in Pressure	<u>331</u> P.S.I.		
H Final Hydrostatic Mud	<u>2122</u> P.S.I.		

Open Tool _____ M
 First Flow Pressure _____
 Initial Closed-in Pressure _____
 Second Flow Pressure _____
 Final Closed-in Pressure _____

Plugging on the I.F.P.

PRESSURE BREAKDOWN

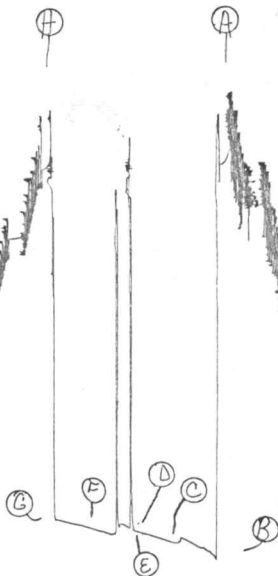
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>139</u>	0	<u>212</u>	0	<u>291</u> F.T.	0	<u>284</u>
P 2 5	<u>167</u>	3	<u>216</u>	5 - <u>291</u>	<u>309</u>	3	<u>289</u>
P 3 10	<u>186</u>	6	<u>222</u>	10	<u>256</u> F.T.	6	<u>294</u>
P 4 15	<u>198</u>	9	<u>230</u>	15	<u>265</u>	9	<u>300</u>
P 5 20	<u>217</u>	12	<u>237</u>	20	<u>274</u>	12	<u>306</u>
P 6 25	<u>234</u>	15	<u>244</u>	25	<u>284</u>	15	<u>312</u>
P 7 30	<u>212</u>	18	<u>251</u>	30		18	<u>317</u>
P 8 35		21	<u>257</u>	35		21	<u>322</u>
P 9 40		24	<u>263</u>	40		24	<u>327</u>
P10 45		27	<u>269</u>	45		27	<u>331</u>
P11 50		30	<u>275</u>	50		30	
P12 55		33		55		33	
P13 60		36		60		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	

13402

DST # 3

TK1 # 5547

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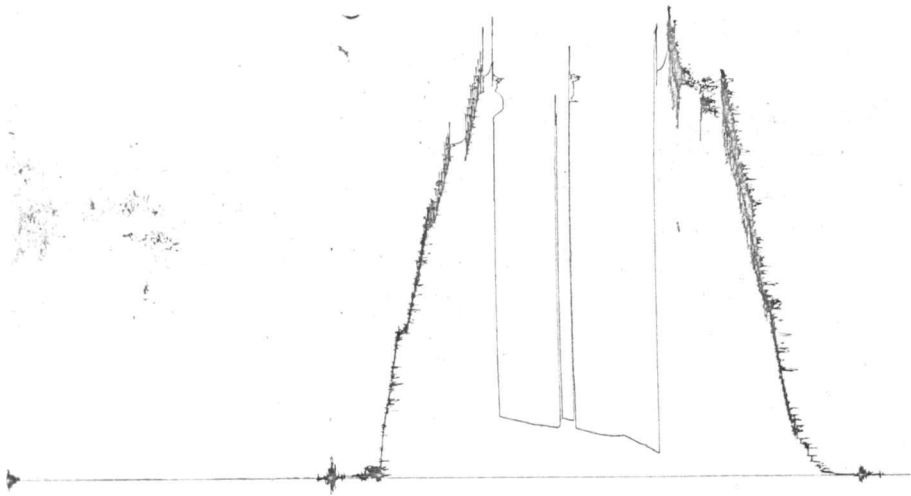


1559

DST #3

TKT # 5597

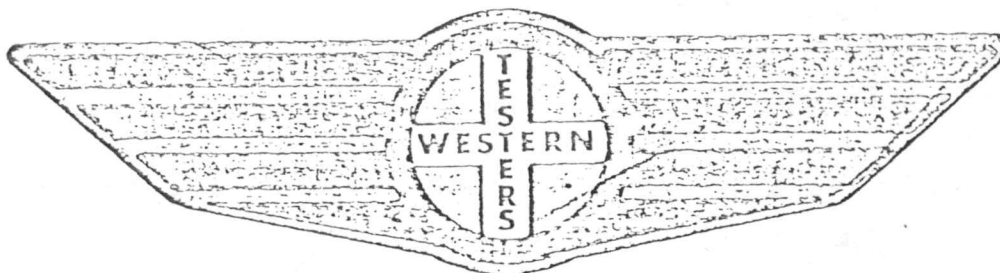
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/15/84
CUSTOMER: F.G. HOLL
WELL: 1-16
ELEVATION (KB): 0
SECTION: 16
RANGE: 12W
GAUGE SN #13402

TEST: 3
FORMATION: MISSISSIPPI
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4025

TICKET #5597
LEASE: LAWRENZ
GEOLOGIST: MALLOY
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4350 FT TO: 4394 FT TOTAL DEPTH: 4394 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4345 FT SIZE: 6 3/4 IN PACKER DEPTH: 4350 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING

MUD TYPE: CHEMICAL VISCOSITY: 50
WEIGHT: 9.4 WATER LOSS (CC): 18.4
CHLORIDES (P.P.M.): 22000

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

DRILL COLLAR LENGTH: 420 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3910 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 44 FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: INITIAL FLOW PERIOD; VERY WEAK BLOW.
FINAL FLOW PERIOD; NO BLOW; FLUSHED TOOL TWICE;
NO BLOW AFTER FLUSH.

RECOVERED: 10 FT OF: 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: PLUGGING ON THE INITIAL FLOW PERIOD.

TIME SET PACKER(S): 4:30 A.M.

TIME STARTED OFF BOTTOM: 6:30 A.M.

WELL TEMPERATURE: 119 °F

INITIAL HYDROSTATIC PRESSURE: (A) 2152 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 139 PSI TO (C) 212 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 275 PSI
FINAL FLOW PERIOD MIN: 30 (E) 291 PSI TO (F) 284 PSI
FINAL CLOSED IN PERIOD MIN: 27 (G) 331 PSI
FINAL HYDROSTATIC PRESSURE (H) 2122 PSI

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 07/16/84

F. G. HOLL
6427 EAST KELLOGG
WICHITA, KANSAS 67207

WELL REPORT NO. 5598

UNIT NO.

DISTRICT

12

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

1-14

LAWRENZ

FARM

BARBER

KS

SECTION

16

TWP.

30S

RANGE

12W

INSURANCE

DRILL STEM TEST FROM 4502' TO 4542' TOTAL DEPTH 4542' (TEST 4)

\$

50.00

595.00

TOTAL

\$

645.00

DISCOUNT

\$ 6.45

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

5598

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



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

OK
Nº 5598

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

WICHITA, KANSAS 67201

Elevation _____ Formation Viols Eff. Pay _____ Ft.

District Pratt Date 7-16-84 Customer Order No. _____

COMPANY NAME F.G. Holl

ADDRESS 6427 E. Kellogg Wichita KS 67207

LEASE AND WELL NO. Lawrenz #1-16 COUNTY Barber STATE KS Sec. 16 Twp. 30s Rge. 12w

Mail Invoice To Same #1-16 LAWRENZ No. Copies Requested Reg

Co. Name _____ Address _____ No. Copies Requested Reg

Mail Charts To Same Address _____

Formation Test No. 4 Interval Tested From 4502 ft. to 4542 ft. Total Depth 4542 ft.

Packer Depth 4495 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4502 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4532 ft. Recorder Number 13402 Cap. 4025

Bottom Recorder Depth (Outside) 4535 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor Sterling #2 Drill Collar Length 420 I. D. 2.2 in.

Mud Type Starch Viscosity 50 Weight Pipe Length _____ I. D. _____ in.

Weight 9.3 Water Loss 13.8 cc. Drill Pipe Length 4062 I. D. 3.8 in.

Chlorides 29,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ 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 x 1 1/4 in.

Blow: Very Weak thru I.F. - NO Blow FF. - Flushed tool twice -
NO Blow After Flush

Recovered 10 ft. of Mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

Time On Location 7:00 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location 2:30 A.M.

Time Set Packer(s) 10:05 A.M. Time Started Off Bottom 12:05 A.M. Maximum Temperature 118°

Initial Hydrostatic Pressure _____ (A) 2147 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 59 P.S.I. to (C) 59 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 88 P.S.I.

Final Flow Period _____ Minutes 30 (E) 88 P.S.I. to (F) 59 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 68 P.S.I.

Final Hydrostatic Pressure _____ (H) 2147 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 Bob F. Mallory
Signature of Customer or his authorized representative

Western Representative [Signature]
1625

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date 7-16 Test Ticket No. 5598
 Recorder No. 13402 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2245</u> P.S.I.		
B First Initial Flow Pressure	<u>60</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>69</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>100</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>100</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>64</u> P.S.I.		
G Final Closed-in Pressure	<u>72</u> P.S.I.		
H Final Hydrostatic Mud	<u>2211</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>11</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>11</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>60</u>	0	<u>69</u>	0	<u>100</u>	0	<u>64</u>
P 2 5	<u>60</u>	3	<u>71</u>	5	<u>104</u>	3	<u>64</u>
P 3 10	<u>60</u>	6	<u>74</u>	10	<u>85</u> F.T.	6	<u>65</u>
P 4 15	<u>61</u>	9	<u>77</u>	15	<u>65</u>	9	<u>66</u>
P 5 20	<u>62</u>	12	<u>80</u>	20	<u>86</u> F.T.	12	<u>67</u>
P 6 25	<u>65</u>	15	<u>83</u>	25	<u>81</u>	15	<u>68</u>
P 7 30	<u>69</u>	18	<u>86</u>	30	<u>64</u>	18	<u>69</u>
P 8 35		21	<u>89</u>	35		21	<u>70</u>
P 9 40		24	<u>92</u>	40		24	<u>71</u>
P10 45		27	<u>96</u>	45		27	<u>72</u>
P11 50		30	<u>100</u>	50		30	<u>72</u>
P12 55		33		55		33	
P13 60		36		60		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	

13402

DST #4

TKT # 5598

I

(A)

(A)

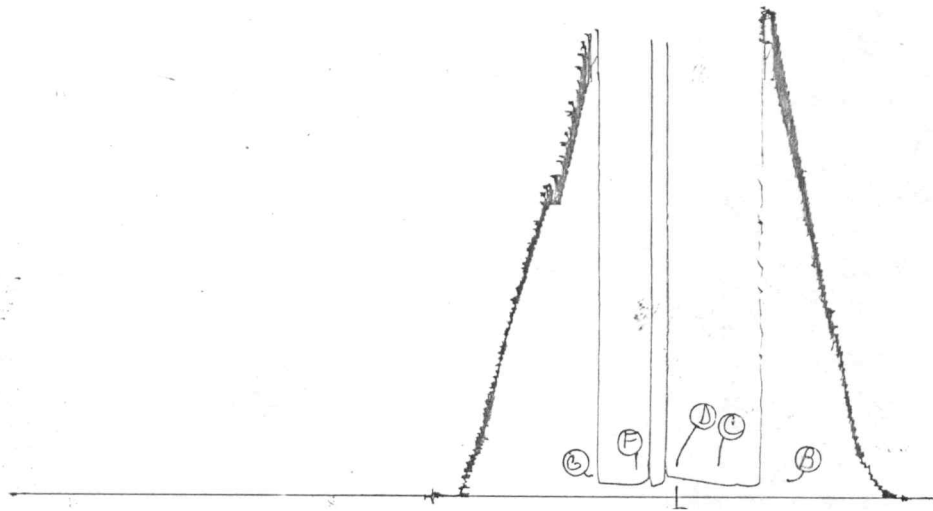
(B)

(F)

(D)

(C)

(B)



15549

DST #41

TKT #5598

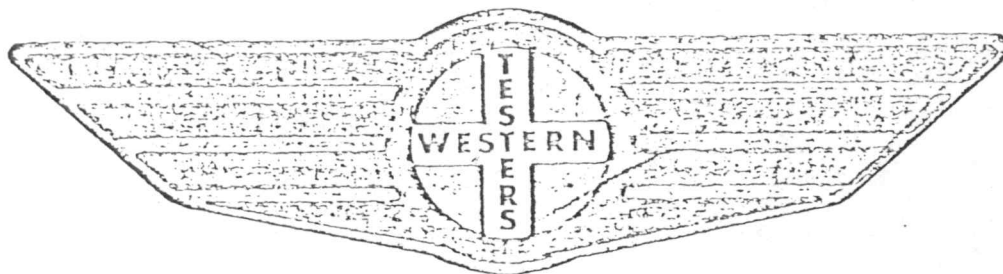
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/16/84
CUSTOMER: F.G. HOLL
WELL: 1-16
ELEVATION (KB): 0
SECTION: 16
RANGE: 12W
GAUGE SN #13402

TEST: 4
FORMATION: VIOLA
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4025

TICKET #5598
LEASE: LAWRENZ
GEOLOGIST: MALLOY
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4502 FT TO: 4542 FT TOTAL DEPTH: 4542 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4497 FT SIZE: 6 3/4 IN PACKER DEPTH: 4502 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: STARCH VISCOSITY: 50
WEIGHT: 9.3 WATER LOSS (CC): 13.8
CHLORIDES (P.P.M.): 29000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 420 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4062 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 40 FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: INITIAL FLOW PERIOD; VERY WEAK BLOW. FINAL FLOW
PERIOD; NO BLOW; FLUSHED TOOL TWICE; STILL
NO BLOW.

RECOVERED: 10 FT OF: 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): 10:05 A.M. TIME STARTED OFF BOTTOM: 12:05 P.M.
WELL TEMPERATURE: 118 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2245 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 60 PSI TO (C) 69 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 100 PSI
FINAL FLOW PERIOD MIN: 30 (E) 100 PSI TO (F) 64 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 72 PSI
FINAL HYDROSTATIC PRESSURE (H) 2211 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 7/16/84
CUSTOMER: F.G. HOLL
WELL: 1-16
ELEVATION (KB): 0
SECTION: 16
RANGE: 12W
GAUGE SN #13402

TEST: 4
FORMATION: VIOLA
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4025

TICKET #5598
LEASE: LAWRENZ
GEOLOGIST: MALLOY
STATE: KANSAS
CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2245 PSI
(B) FIRST INITIAL FLOW PRESSURE: 60 PSI
(C) FIRST FINAL FLOW PRESSURE: 69 PSI
(D) INITIAL CLOSED-IN PRESSURE: 100 PSI
(E) SECOND INITIAL FLOW PRESSURE: 100 PSI
(F) SECOND FINAL FLOW PRESSURE: 64 PSI
(G) FINAL CLOSED-IN PRESSURE: 72 PSI
(H) FINAL HYDROSTATIC PRESSURE: 2211 PSI
WELL TEMPERATURE: 118 °F
OPEN TOOL: 10:05 A.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	30 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	30 MIN	30 MIN

PRESSURE BREAKDOWN								
PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	60	0	69	0	100	0	64
2	5	60	3	71	5	104	3	64
3	10	60	6	74	10	85	6	65
4	15	61	9	77	15	65	9	66
5	20	62	12	80	20	86	12	67
6	25	65	15	83	25	81	15	68
7	30	69	18	86	30	64	18	69
8			21	89			21	70
9			24	92			24	71
10			27	96			27	72
11			30	100			30	72
12								
13								
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25								
26								
27								
28								
29								
30								

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 07/17/84

F. G. HOLL
6427 EAST KELLOGG
WICHITA, KANSAS 67207

WELL REPORT NO. 5599

UNIT NO. 12

DISTRICT

FOR CUSTOMER'S USE ONLY

REGISTER NO.

VOUCHER NO.

TERMS APPROVED

PRICE APPROVED

CALCULATIONS CHECKED

ADJUSTMENTS

ACCOUNTING DISTRIBUTION

AUDITED

FINAL APPROVAL

YOUR ORDER NO.

OWNER

CONTRACTOR

WELL NO.

1-16

LAWRENZ

FARM

BARBER

KS

SECTION

16

TWP

30S

RANGE

12W

DRILL STEM TEST FROM 4621' TO 4670' TOTAL DEPTH 4670' (TEST 5) \$ 595.00
CIRC. SUB. 35.00
INSURANCE 50.00

TOTAL \$ 680.00

DISCOUNT

\$ 6.80

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

5599

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



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

OK
Nº 5599

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

WICHITA, KANSAS 67201

Elevation _____ Formation Simpson Eff. Pay _____ Ft. _____

District 12 Pratt Date 7-17-84 Customer Order No. _____

COMPANY NAME H140 F.G. Hall

ADDRESS 6427 E. Kellogg Wichita KS 67207

LEASE AND WELL NO. Lawrenz #1-16 COUNTY Barber STATE KS Sec. 16 Twp. 30 Rge. Rw

Mail Invoice To Same #1-16 LAWRENZ No. Copies Requested Reg

Co. Name _____ Address _____

Mail Charts To Same No. Copies Requested Reg

Formation Test No. 5 Interval Tested From 4621 ft. to 4670 ft. Total Depth 4670 ft.

Packer Depth 4616 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4621 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4660 ft. Recorder Number 13402 Cap. 4025

Bottom Recorder Depth (Outside) 4663 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor Sterling #2 Drill Collar Length 420 I. D. 2.2 in.

Mud Type Starch Viscosity 50 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 12.8 cc. Drill Pipe Length 4270 4181 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 20 ft. Tool Size 5/200 in.

Jars: Make _____ Serial Number _____ Anchor Length 49 ft. Size 5/200 in.

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

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

Blow: Strong thru Both Flow Periods

Recovered 312 ft. of Watery Mud

Recovered 3206 ft. of Water Chlorides. 38,000 ppm.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used 2 Remarks: _____

Time On Location 7:30 A.M. Time Pick Up Tool 9:15 A.M. Time Off Location 5:00 A.M.

Time Set Packer(s) 11:15 A.M. Time Started Off Bottom 1:45 A.M. Maximum Temperature 122°

Initial Hydrostatic Pressure _____ (A) 2340 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 487 P.S.I. to (C) 1444 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 1634 P.S.I.

Final Flow Period _____ Minutes 60 (E) 1504 P.S.I. to (F) 1634 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 1634 P.S.I.

Final Hydrostatic Pressure _____ (H) 2238 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 Bob F. Mallory
Signature of Customer or his authorized representative

Western Representative 1625
Thank you

FIELD INVOICE

Open Hole Test \$ 595.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ 35.00
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 630.00

WESTERN TESTING CO., INC.

Pressure Data

Date 7-17 Test Ticket No. 5599
 Recorder No. 13402 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2324</u> P.S.I.		
B First Initial Flow Pressure	<u>687</u> P.S.I.	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>1443</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1635</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>1503</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>1640</u> P.S.I.		
G Final Closed-in Pressure	<u>1642</u> P.S.I.		
H Final Hydrostatic Mud	<u>2234</u> P.S.I.		

PRESSURE BREAKDOWN

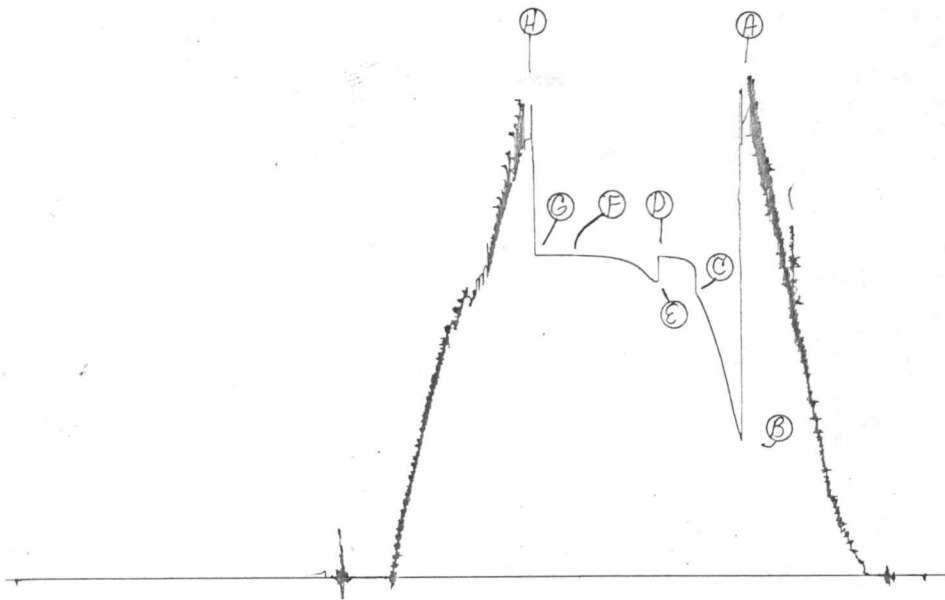
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>11</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</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>687</u>	<u>0</u>	<u>1443</u>	<u>0</u>	<u>1503</u>	<u>0</u>	<u>1640</u>
P 2 <u>5</u>	<u>818</u>	<u>3</u>	<u>1590</u>	<u>5</u>	<u>1517</u>	<u>3</u>	<u>1640</u>
P 3 <u>10</u>	<u>959</u>	<u>6</u>	<u>1608</u>	<u>10</u>	<u>1550</u>	<u>6</u>	<u>1640</u>
P 4 <u>15</u>	<u>1094</u>	<u>9</u>	<u>1616</u>	<u>15</u>	<u>1580</u>	<u>9</u>	<u>1640</u>
P 5 <u>20</u>	<u>1207</u>	<u>12</u>	<u>1621</u>	<u>20</u>	<u>1600</u>	<u>12</u>	<u>1640</u>
P 6 <u>25</u>	<u>1307</u>	<u>15</u>	<u>1626</u>	<u>25</u>	<u>1611</u>	<u>15</u>	<u>1641</u>
P 7 <u>30</u>	<u>1386</u>	<u>18</u>	<u>1629</u>	<u>30</u>	<u>1621</u>	<u>18</u>	<u>1641</u>
P 8 <u>35</u>	<u>1443</u>	<u>21</u>	<u>1631</u>	<u>35</u>	<u>1629</u>	<u>21</u>	<u>1641</u>
P 9 <u>40</u>		<u>24</u>	<u>1633</u>	<u>40</u>	<u>1633</u>	<u>24</u>	<u>1642</u>
P10 <u>45</u>		<u>27</u>	<u>1634</u>	<u>45</u>	<u>1636</u>	<u>27</u>	<u>1642</u>
P11 <u>50</u>		<u>30</u>	<u>1635</u>	<u>50</u>	<u>1638</u>	<u>30</u>	<u>1642</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>	<u>1639</u>	<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>1640</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>	

13402

DST#5

TKT#5599

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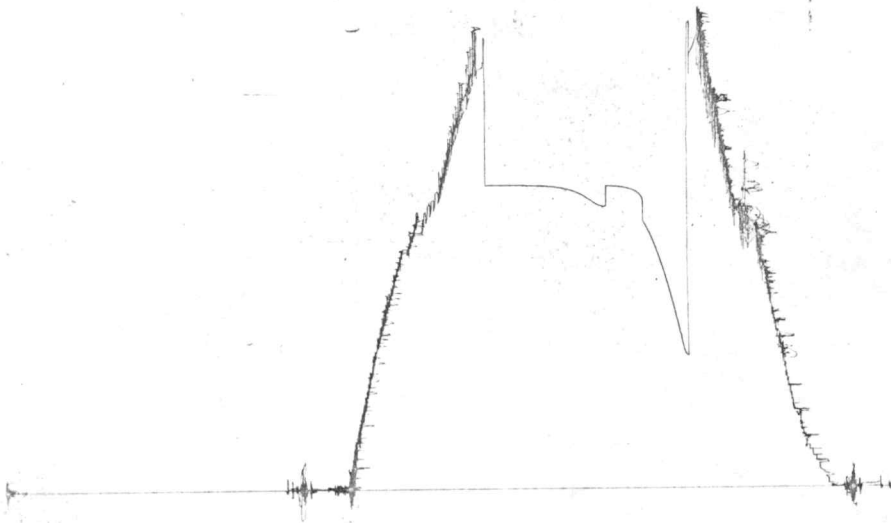


1559

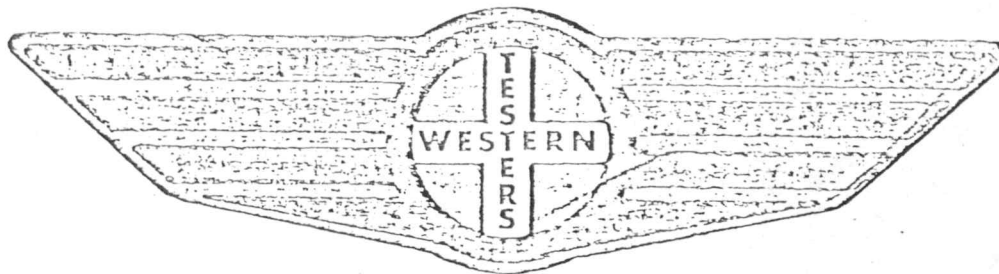
DST #5

TKT # 5599.

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company F.G. HOLL Lease and Well No. #1-16 Lawrence Sec. 16 Twp. 30S Rge. 12W Test No. 5 Date 7-17-8

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/17/84
CUSTOMER: F.G. HOLL
WELL: 1-16
ELEVATION (KB): 0
SECTION: 16
RANGE: 12W
GAUGE SN #13402

TEST: 5
FORMATION: SIMPSON
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4025

TICKET #5599
LEASE: LAWRENZ
GEOLOGIST: MALLOY
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4621 FT TO: 4670 FT TOTAL DEPTH: 4670 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4616 FT SIZE: 6 3/4 IN Packer DEPTH: 4621 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING

MUD TYPE: STARCH

VISCOSITY: 50

WEIGHT: 9.5

WATER LOSS (CC): 12.8

CHLORIDES (P.P.M.): 26000

JARS - MAKE:

SERIAL NUMBER:

DID WELL FLOW? NO

REVERSED OUT? YES

DRILL COLLAR LENGTH: 420

FT I.D.: 2.25 IN

WEIGHT PIPE LENGTH:

FT I.D.: IN

DRILL PIPE LENGTH: 4181

FT I.D.: 3.8 IN

TEST TOOL LENGTH: 20

FT TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: 49

FT SIZE: 5 1/2 O.D. 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 X.H. IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 312	FT	OF: WATERY MUD
RECOVERED: 3206	FT	OF: WATER
RECOVERED:	FT	OF: CHLORIDES 38000 PPM
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 11:15 A.M.

TIME STARTED OFF BOTTOM: 1:45 P.M.

WELL TEMPERATURE: 122 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 2324 PSI

INITIAL FLOW PERIOD

MIN: 35

(B) 687

PSI TO (C) 1443 PSI

INITIAL CLOSED IN PERIOD

MIN: 30

(D) 1635

PSI

FINAL FLOW PERIOD

MIN: 60

(E) 1503

PSI TO (F) 1640 PSI

FINAL CLOSED IN PERIOD

MIN: 30

(G) 1642

PSI

FINAL HYDROSTATIC PRESSURE

(H) 2234

PSI

