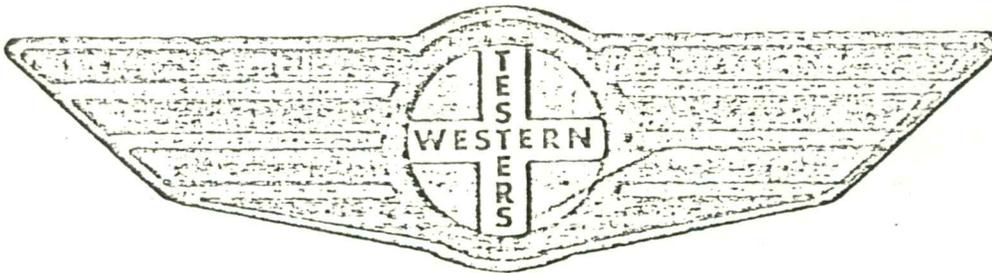


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company \_\_\_\_\_ W L KIRKMAN, INC. \_\_\_\_\_ Lease and Well No. #1 HARBAUGH \_\_\_\_\_ Sec. 8 \_\_\_\_\_ Twp. 34S Rge. 19W Test No. 1 Date 1/24/8

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/24/84  
CUSTOMER: W. L. KIRKMAN INC.  
WELL: 1 TEST: 1  
ELEVATION (KB): 1873 FORMATION: SWOPE  
SECTION: 8 TOWNSHIP: 34S  
RANGE: 19W COUNTY: COMANCHE STATE: KANSAS  
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 4801 FT TO: 4874 FT TOTAL DEPTH: 4874 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 4796 FT SIZE: 6 5/8 IN PACKER DEPTH: 4801 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG.  
MUD TYPE: LOW SLDS. VISCOSITY: 48  
WEIGHT: 9.0 WATER LOSS (CC): 11.0  
CHLORIDES (P.P.M.): 16000  
JARS - MAKE: NO SERIAL NUMBER:  
DID WELL FLOW? REVERSED OUT? NO  
DRILL COLLAR LENGTH: 453 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4328 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 73 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 F.H. IN

BLOW: VERY WEAK BLOW SLOWLY DECREASING THROUGHOUT  
INITIAL FLOW PERIOD.  
NO BLOW ON FINAL FLOW PERIOD.

RECOVERED: 22 FT OF: VERY SLIGHTLY GAS CUT DRILLING MUD  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

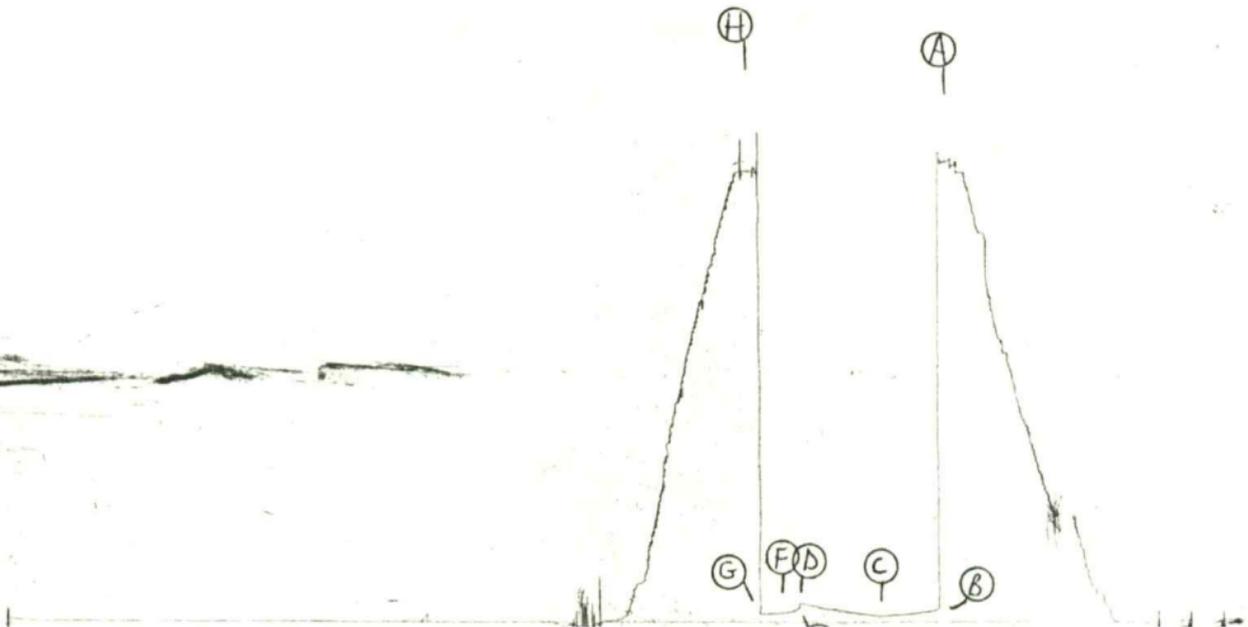
TIME SET PACKER(S): 3:35 P.M. TIME STARTED OFF BOTTOM: 5:30 P.M.  
WELL TEMPERATURE: 119 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2392 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 58 PSI TO (C) 31 PSI  
INITIAL CLOSED IN PERIOD MIN: 51 (D) 99 PSI  
FINAL FLOW PERIOD MIN: 10 (E) 44 PSI TO (F) 44 PSI  
FINAL CLOSED IN PERIOD MIN: 12 (G) 44 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2342 PSI



TKT # 4252

copy  
DST #1

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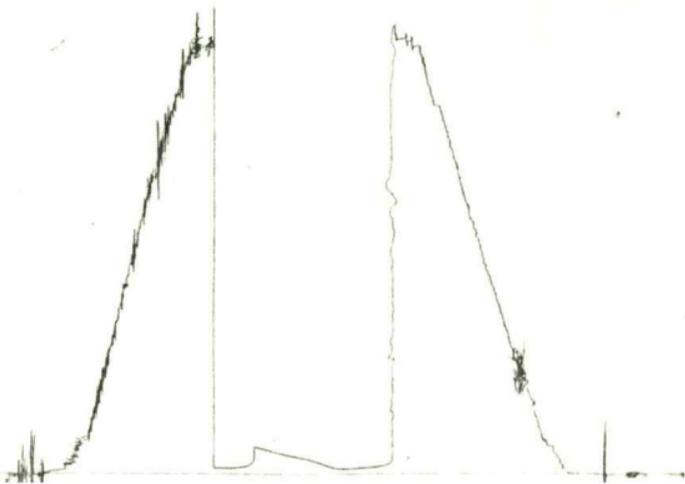


TKT # 4252

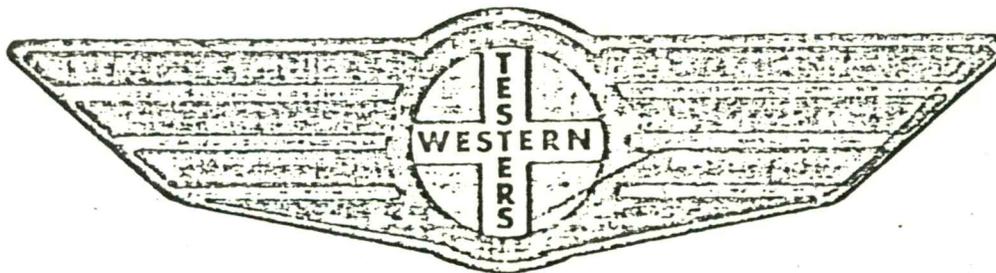
5673

DST#1

0



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company W L KIRKMAN, INC. Lease and Well No. #1 HARBAUGH Sec. 8 Twp. 34S Rge. 19W Test No. 2 Date 1/25/8

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/25/84  
CUSTOMER: W. L. KIRKMAN INC.  
WELL: 1 TEST: 2  
ELEVATION (KB): 1873 FORMATION: PAWNEE  
SECTION: 8 TOWNSHIP: 34S  
RANGE: 19W COUNTY: COMANCHE STATE: KANSAS  
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 5038 FT TO: 5067 FT TOTAL DEPTH: 5067 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 5033 FT SIZE: 6 5/8 IN PAKER DEPTH: 5038 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG.  
MUD TYPE: LOW SOLIDS VISCOSITY: 50  
WEIGHT: 9.0 WATER LOSS (CC): 10.4  
CHLORIDES (P.P.M.): 10000  
JARS - MAKE: NO SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 453 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4565 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 29 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 F.H. IN

BLOW: WEAK BLOW SLOWLY BUILDING ON INITIAL FLOW PERIOD.  
WEAK BUT STEADY BLOW ON FINAL FLOW PERIOD.

RECOVERED: 67 FT OF: SLIGHTLY GAS CUT DRILLING MUD  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

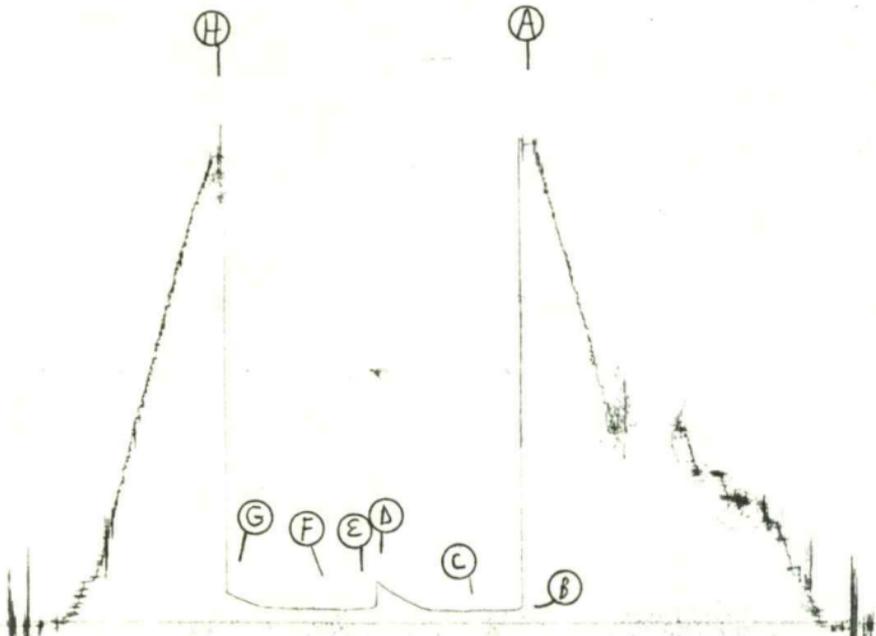
TIME SET PACKER(S): 8:10 P.M. TIME STARTED OFF BOTTOM: 11:10 P.M.  
WELL TEMPERATURE: 126 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2476 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 63 PSI TO (C) 63 PSI  
INITIAL CLOSED IN PERIOD MIN: 54 (D) 215 PSI  
FINAL FLOW PERIOD MIN: 30 (E) 72 PSI TO (F) 72 PSI  
FINAL CLOSED IN PERIOD MIN: 54 (G) 160 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2432 PSI



LC 74  
DST #1

TKT # 425.3

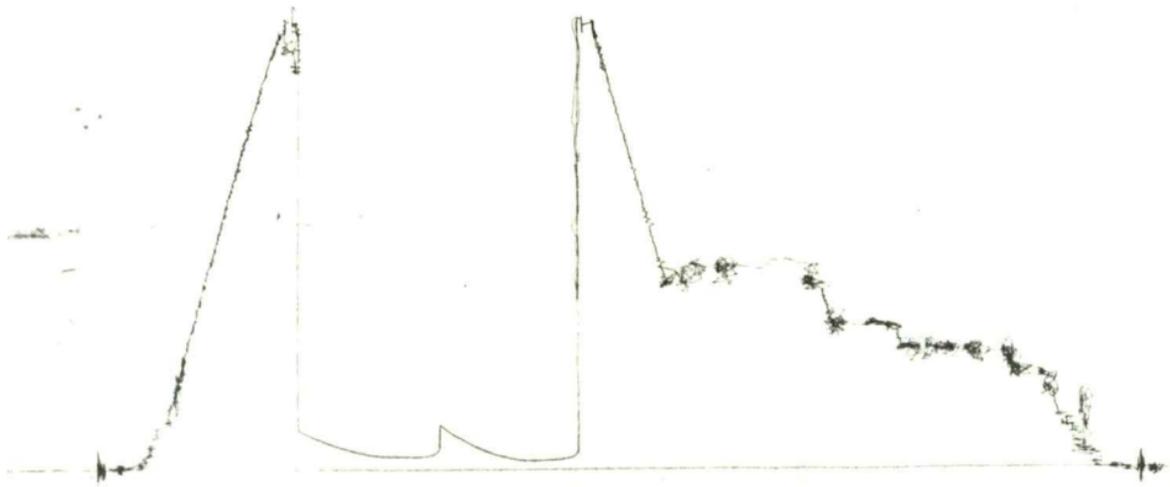
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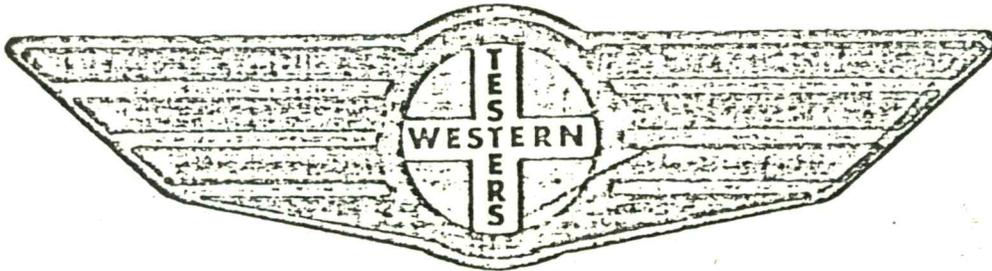
5613  
PST#2

TKT # 425.3

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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company W L KIRKMAN, INC. Lease and Well No. #1 HARBAUGH Sec. 8 Twp. 34S Rge. 19W Test No. 3 Date 1/26/8

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/26/84  
CUSTOMER: W. L. KIRKMAN INC.  
WELL: 1 TEST: 3  
ELEVATION (KB): 1873 FORMATION: PAWNEE  
SECTION: 8 TOWNSHIP: 34S  
RANGE: 19W COUNTY: COMANCHE STATE: KANSAS  
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

TICKET #4254  
LEASE: HARBAUGH  
GEOLOGIST: B. KISSICLE

INTERVAL TEST FROM: 5069 FT TO: 5106 FT TOTAL DEPTH: 5106 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 5064 FT SIZE: 6 5/8 IN PAKER DEPTH: 5069 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG.  
MUD TYPE: LOW SOLIDS VISCOSITY: 49  
WEIGHT: 9.1 WATER LOSS (CC): 15.2  
CHLORIDES (P.P.M.): 15500  
JARS - MAKE: NO SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 453 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4596 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 37 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 F.H. IN

BLOW: STRONG BLOW ON INITIAL FLOW PERIOD.  
WEAK BLOW BUILDING TO A STRONG BLOW ON FINAL FLOW PERIOD.

RECOVERED: 190 FT OF: SLIGHTLY GAS CUT DRILLING MUD.  
RECOVERED: 120 FT OF: GASSY SALT WATER  
RECOVERED: FT OF: CHLORIDES 45000 P.P.M.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

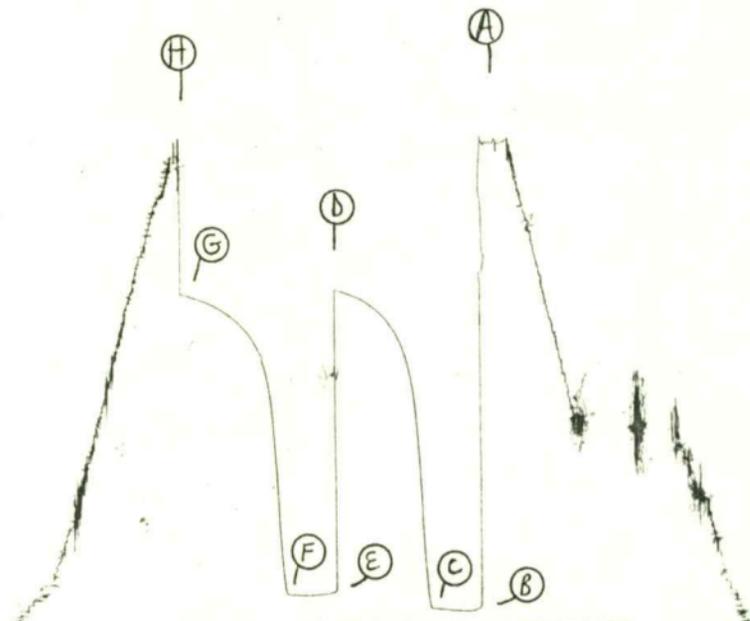
TIME SET PACKER(S): 11:50 A.M. TIME STARTED OFF BOTTOM: 2:50 P.M.  
WELL TEMPERATURE: 124 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2480 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 58 PSI TO (C) 75 PSI  
INITIAL CLOSED IN PERIOD MIN: 57 (D) 1740 PSI  
FINAL FLOW PERIOD MIN: 30 (E) 144 PSI TO (F) 150 PSI  
FINAL CLOSED IN PERIOD MIN: 60 (G) 1719 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2434 PSI



TKT # 4254

6240  
DST #3

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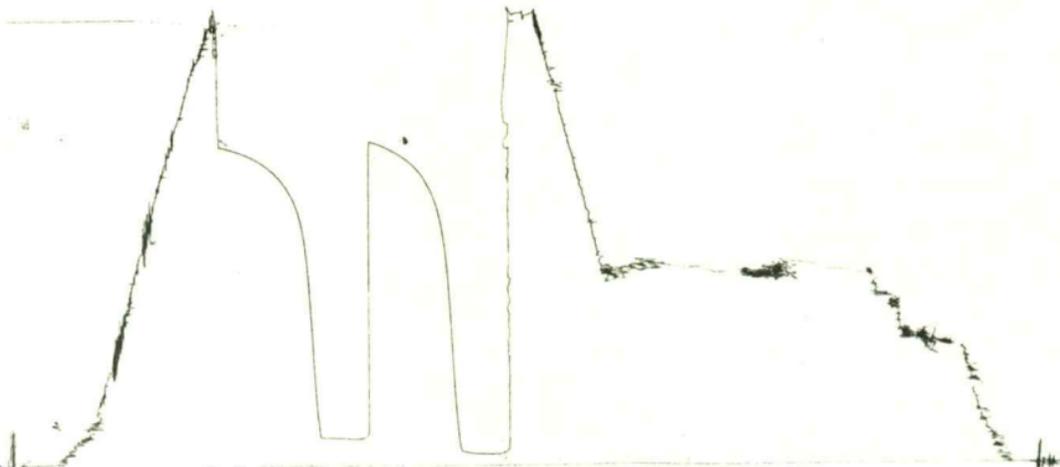


TKT # 4254

5673

12ST#3

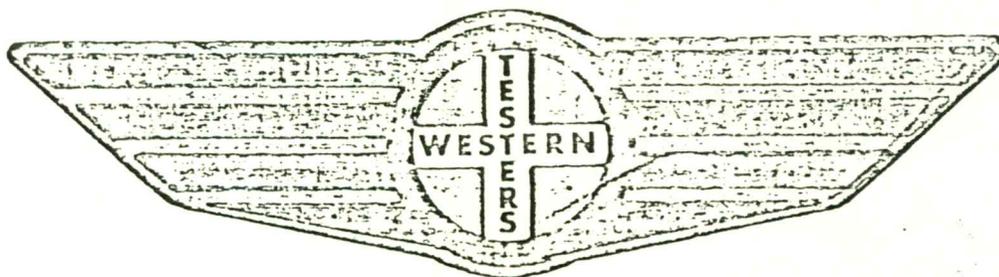
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# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company W L KIRKMAN, INC. Lease and Well No. #1 HAKBAUGH Sec. 8 TWP. 34S R9E. 19W test no. 4 date 11/1/84

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/27/84  
CUSTOMER: W. L. KIRKMAN INC.  
WELL: 1 TEST: 4  
ELEVATION (KB): 1837 FORMATION: FORT SCOTT  
SECTION: 8 TOWNSHIP: 34S  
RANGE: 19W COUNTY: COMANCHE STATE: KANSAS  
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 5109 FT TO: 5133 FT TOTAL DEPTH: 5133 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 5104 FT SIZE: 6 5/8 IN PAKER DEPTH: 5109 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG.  
MUD TYPE: LOW SOLIDS VISCOSITY: 49  
WEIGHT: 9.2 WATER LOSS (CC): 13.2  
CHLORIDES (P.P.M.): 15500  
JARS - MAKE: NO SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 453 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4636 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 24 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 F.H. IN

BLOW: WEAK BUILDING TO STRONG BLOW ON INITIAL FLOW.  
STRONG BLOW THROUGHOUT FINAL FLOW.

RECOVERED: 75 FT OF: SLIGHTLY GAS CUT DRILLING MUD  
RECOVERED: 1900 FT OF: GAS ABOVE FLUID  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

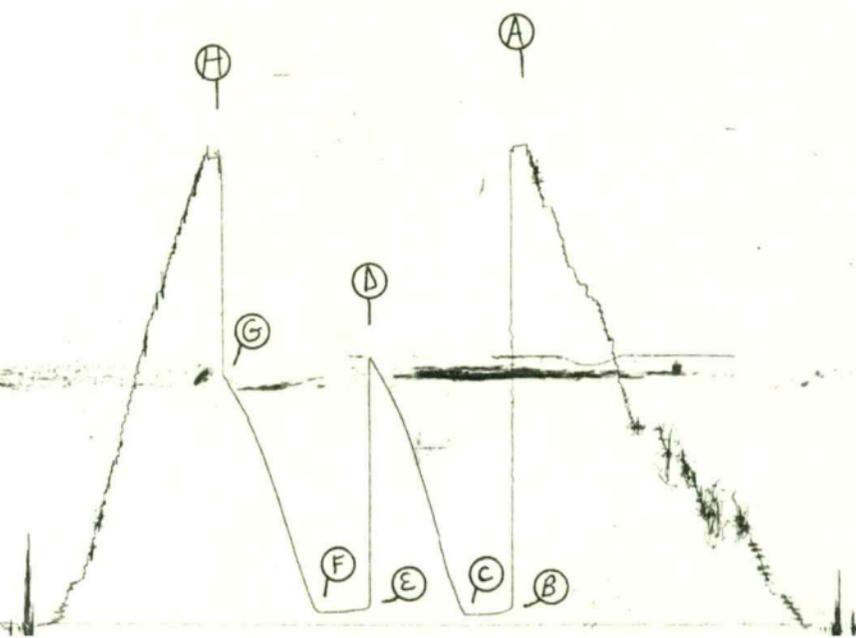
TIME SET PACKER(S): 4:05 A.M. TIME STARTED OFF BOTTOM: 7:05 A.M.  
WELL TEMPERATURE: 124 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2488 PSI  
INITIAL FLOW PERIOD MIN: 25 (B) 51 PSI TO (C) 51 PSI  
INITIAL CLOSED IN PERIOD MIN: 54 (D) 1392 PSI  
FINAL FLOW PERIOD MIN: 30 (E) 66 PSI TO (F) 66 PSI  
FINAL CLOSED IN PERIOD MIN: 57 (G) 1309 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2439 PSI



TKT # 4255

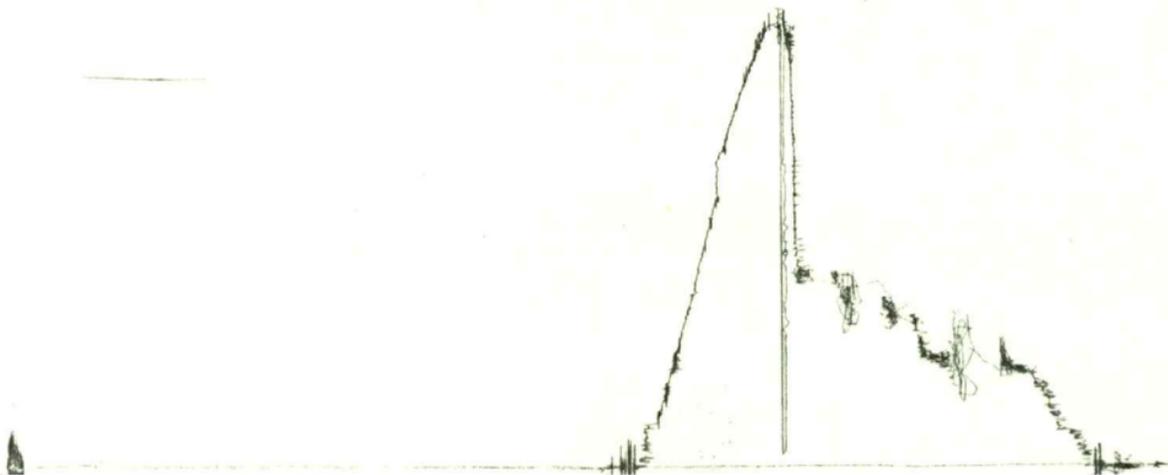
6270  
12ST-14

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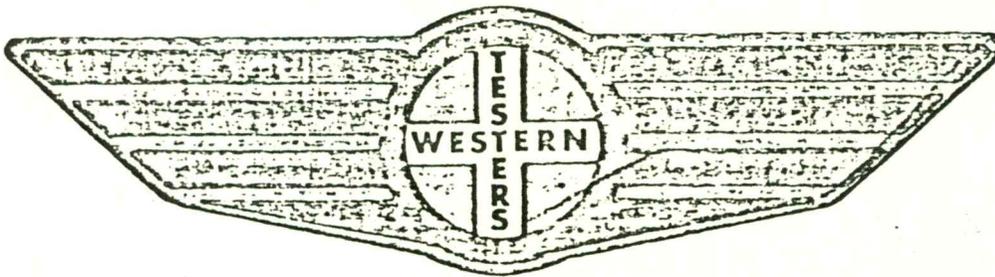


TKT # 4255 <sup>5673</sup> DST#4

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# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company W L KIRKMAN, INC. Lease and Well No. #1 HARBAUGH Sec. 8 Twp. 34S Rge. 19W Test No. 5 Date 1/28/87

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 1/28/84  
CUSTOMER: W.L.KIRKMAN INC.  
WELL: 1 TEST: 5  
ELEVATION (KB): 1837 FORMATION: MISS  
SECTION: 8 TOWNSHIP: 34S  
RANGE: 19W COUNTY: COMANCHE STATE: KANSAS  
GAUGE SN #6246 RANGE: 5200 CLOCK: 12

INTERVAL TEST FROM: 5226 FT TO: 5249 FT TOTAL DEPTH: 5249 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 5221 FT SIZE: 6 5/8 IN Packer DEPTH: 5226 FT SIZE: 6 5/8 IN  
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN  
MUD TYPE: LOW SLDS VISCOSITY: 50  
WEIGHT: 9.1 WATER LOSS (CC): 14.0  
CHLORIDES (P.P.M.): 15000  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT?  
DRILL COLLAR LENGTH: 453 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 4753 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN  
ANCHOR LENGTH: 23 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 FH IN

BLOW: STRONG BLOW THROUGHOUT INITIAL FLOW.  
GAS TO SURFACE AS SOON AS TOOL WAS  
OPENED.

RECOVERED: 120 FT OF: SLIGHTLY GAS CUT DRLG MUD.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 1:20 A.M. TIME STARTED OFF BOTTOM: 5:05 A.M.  
WELL TEMPERATURE: 125 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 2505 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 102 PSI TO (C) 66 PSI  
INITIAL CLOSED IN PERIOD MIN: 57 (D) 1817 PSI  
FINAL FLOW PERIOD MIN: 45 (E) 47 PSI TO (F) 50 PSI  
FINAL CLOSED IN PERIOD MIN: 90 (G) 1829 PSI  
FINAL HYDROSTATIC PRESSURE (H) 2505 PSI





WESTERN TESTING CO. INC.  
GAS FLOW REPORT

DATE: 1/28/84  
CUSTOMER: W.L.KIRKMAN INC.  
WELL: 1  
ELEVATION (KB): 1837  
SECTION: 8  
RANGE: 19W  
GAUGE SN #6246

TEST: 5  
FORMATION: MISS  
TOWNSHIP: 34S  
COUNTY: COMANCHE  
RANGE: 5200

TICKET #4256  
LEASE: HARBAUGH  
GEOLOGIST: KISSICLE  
STATE: KANSAS  
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

SECOND FLOW

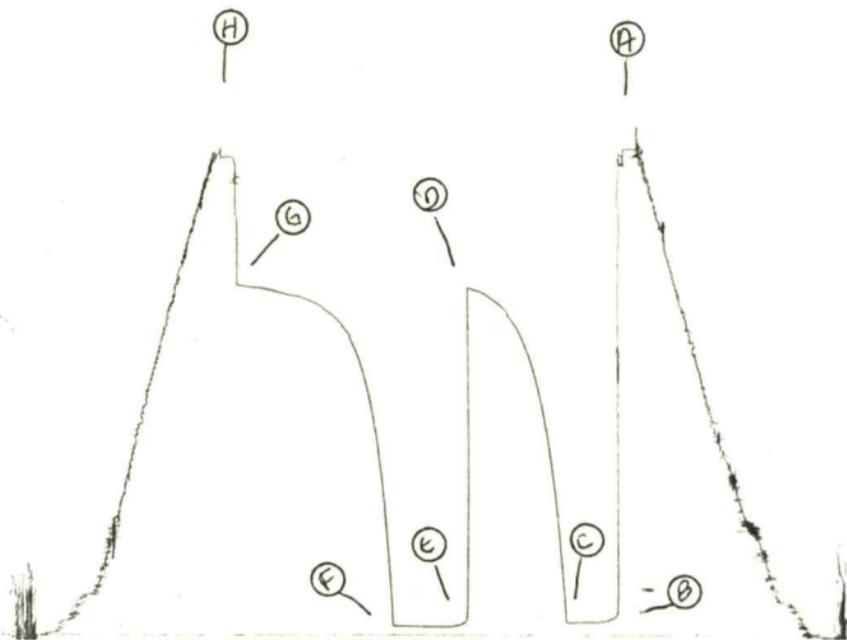
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30		1/8	1.5 PSIG	3390 " "
40		1/8	1.5 PSIG	3390 " "
45		1/8	1.5 PSIG	3390 " "

GAS BOTTLE SN #: 601  
DATE BOTTLE FILLED: 1/28/84  
DATE TO BE INVOICED:

TCC# 4256

6246  
DST#5

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5673  
DST#5

400# 4256

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