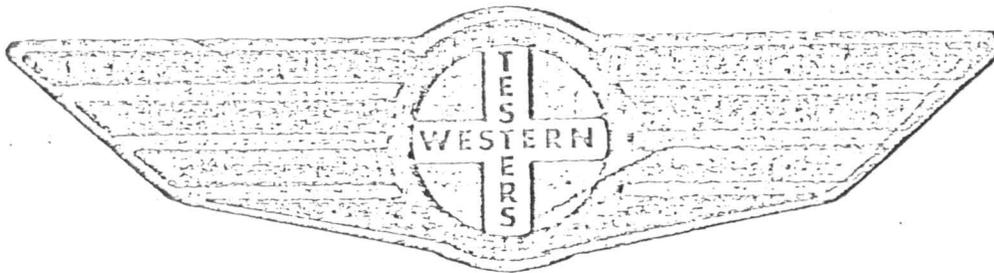


FORMATION

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 NITTLER _____ Sec. 4 _____ Twp. 31S _____ Rge. 14W _____ Test No. 1 _____ Date 6/1/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/1/84 TICKET #18139
CUSTOMER: W.L. KIRKMAN INC. LEASE: NITTLER
WELL: 1 TEST: 1 GEOLOGIST: MOORE
ELEVATION (KB): 1726 FORMATION: WINFIELD
SECTION: 4 TOWNSHIP: 31S
RANGE: 14W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 2083 FT TO: 2163 FT TOTAL DEPTH: 2163 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2078 FT SIZE: 6 3/4 IN PAKER DEPTH: 2083 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDERBARAN
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.6 WATER LOSS (CC):
CHLORIDES (P.P.M.): 74000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 480 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1583 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 80 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: INITIAL FLOW PERIOD; WEAK BLOW SLIGHTLY
INCREASING. FINAL FLOW PERIOD; WEAK BLOW SLIGHTLY
INCREASING.

RECOVERED: 90 FT OF: MUD
RECOVERED: FT OF: CHLORIDES 73000 PPM
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: 60 FEET OF DRILL COLLARS IN ANCHOR.

TIME SET PACKER(S): 10:40 A.M. TIME STARTED OFF BOTTOM: 12:10 P.M.
WELL TEMPERATURE: 96 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1066 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 81 PSI TO (C) 81 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 819 PSI
FINAL FLOW PERIOD MIN: 15 (E) 109 PSI TO (F) 109 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 786 PSI
FINAL HYDROSTATIC PRESSURE (H) 1066 PSI

360

360

TKT # 18139

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TKT # 18139

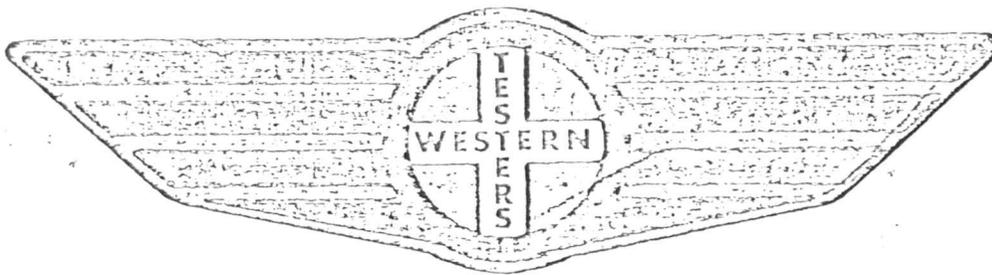
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Home Office:

Wichita, Kansas 67201

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Phone (316) 262-5861

ipany
W.D. ALANMAN INC.
Lease and Well No. #1 NITTLER
Sec. 4 Twp. 31S Rge. 14W Test No. 7
Date 6/4/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/4/84
CUSTOMER: W.L. KIRKMAN INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1726 FORMATION: LANGDON SAND
SECTION: 4 TOWNSHIP: 31S
RANGE: 14W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 2871 FT TO: 2918 FT TOTAL DEPTH: 2918 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2866 FT SIZE: 6 3/4 IN PAKER DEPTH: 2871 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDERBARAN
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 9.0 WATER LOSS (CC): 14
CHLORIDES (P.P.M.): 6000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 540 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2311 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 47 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: INITIAL FLOW PERIOD; VERY WEAK BLOW. FINAL FLOW PERIOD; VERY WEAK BLOW DIED IN 6 MINUTES.

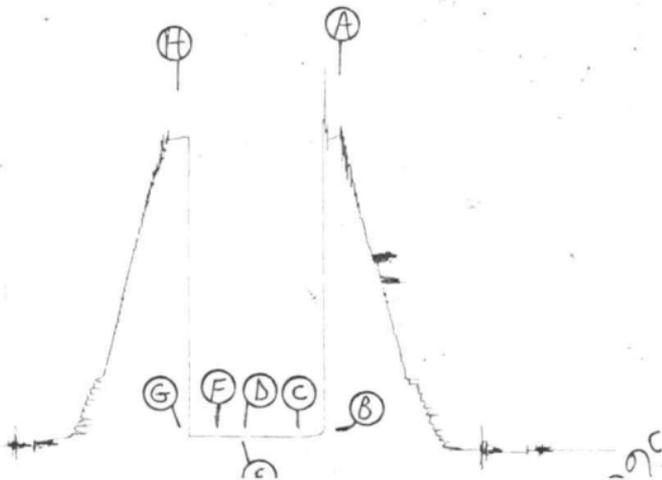
RECOVERED: 15 FT OF: MUD
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 3:45 A.M. TIME STARTED OFF BOTTOM: 5:00 A.M.
WELL TEMPERATURE: 104 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1435 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 54 PSI TO (C) 54 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 54 PSI
FINAL FLOW PERIOD MIN: 15 (E) 54 PSI TO (F) 54 PSI
FINAL CLOSED IN PERIOD MIN: 18 (G) 55 PSI
FINAL HYDROSTATIC PRESSURE (H) 1347 PSI

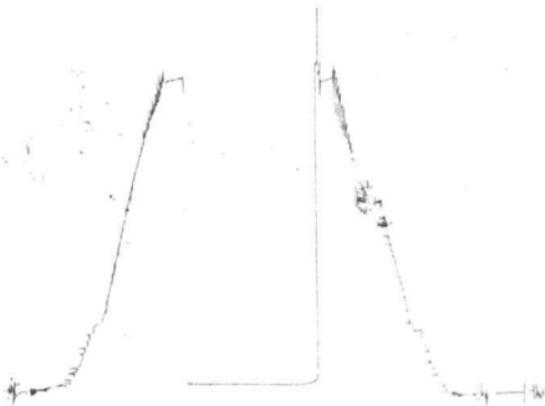
TKT # 18140

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TKT # 18140

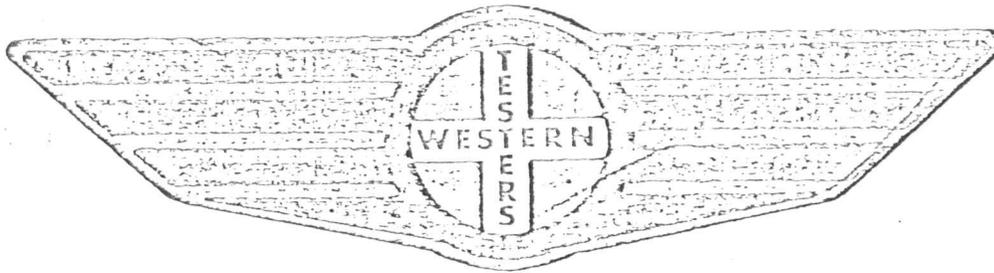
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REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company W.L. KIRKMAN Lease and Well No. #1 NITTE Sec. 4 Twp. 31S Rge. 14W Test No. 3 Date 6/4/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/4/84 TICKET #18141
 CUSTOMER: W.L. KIRKMAN LEASE: NITTLER
 WELL: 1 TEST: 3 GEOLOGIST: MOORE
 ELEVATION (KB): 1726 FORMATION: EMPORIA
 SECTION: 4 TOWNSHIP: 31S
 RANGE: 14W COUNTY: BARBER STATE: KANSAS
 GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 3071 FT TO: 3094 FT TOTAL DEPTH: 3094 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 3066 FT SIZE: 6 3/4 IN PACKER DEPTH: 3071 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDERBARAN
 MUD TYPE: CHEMICAL VISCOSITY: 70
 WEIGHT: 8.8 WATER LOSS (CC): 13.6
 CHLORIDES (P.P.M.): 8000
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 540 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 2511 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 F.H. IN

BLOW: STRONG BLOW THROUGHOUT TEST.

RECOVERED: 240 FT OF: GAS ABOVE FLUID
 RECOVERED: 180 FT OF: OIL CUT GASSY MUD; 10% OIL; 1% GAS; 89% MUD
 RECOVERED: FT OF:
 RECOVERED: FT OF:

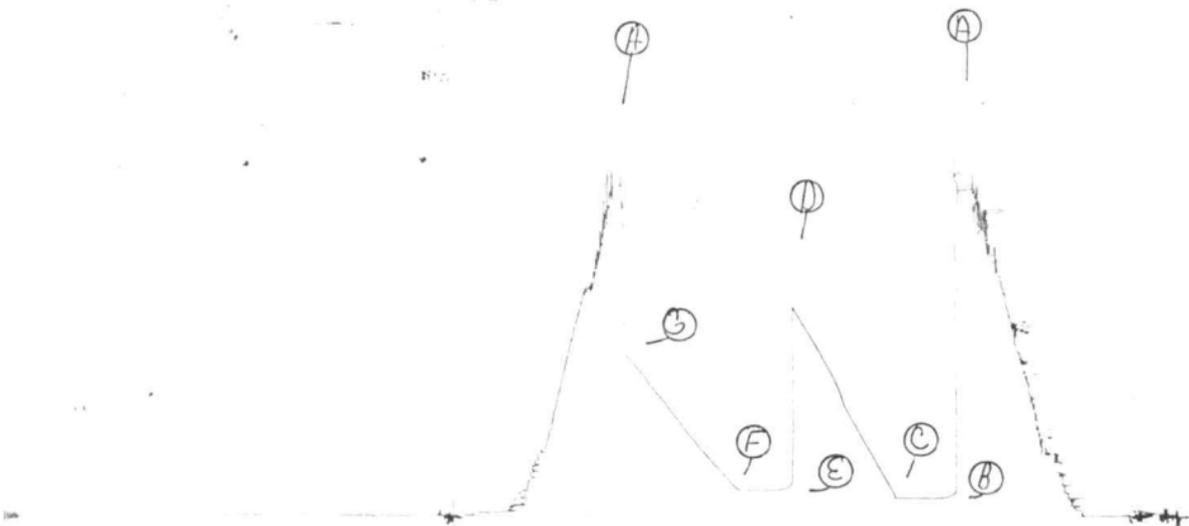
REMARKS: SLID TOOL TO BOTTOM; 17 FEET; TOOL CREPT TO
 BOTTOM ALL DURING INITIAL FLOW PERIOD.

TIME SET PACKER(S): 7:00 P.M. TIME STARTED OFF BOTTOM: 10:00 P.M.
 WELL TEMPERATURE: 105 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 1463 PSI
 INITIAL FLOW PERIOD MIN: 35 (B) 81 PSI TO (C) 81 PSI
 INITIAL CLOSED IN PERIOD MIN: 60 (D) 925 PSI
 FINAL FLOW PERIOD MIN: 30 (E) 114 PSI TO (F) 114 PSI
 FINAL CLOSED IN PERIOD MIN: 69 (G) 716 PSI
 FINAL HYDROSTATIC PRESSURE (H) 1446 PSI

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TKT # 18141

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TKT # 18141

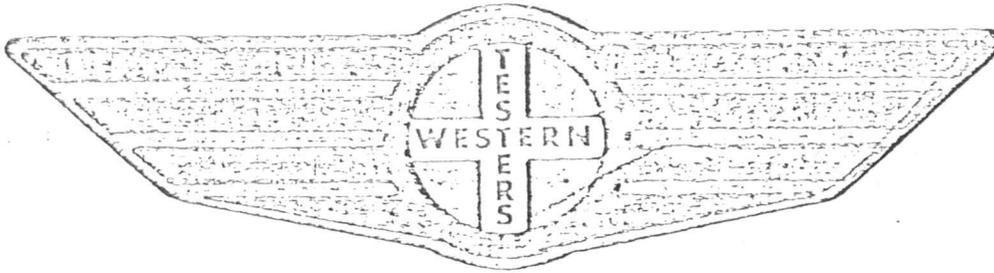
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company W.L. KIRKMAN Lease and Well No. #1 NITTLER Sec. 4 Twp. 31S Rge. 14W Test No. 4 Date 6/6/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/6/84
CUSTOMER: W.L. KIRKMAN
WELL: 1
ELEVATION (KB): 1726
SECTION: 4
RANGE: 14W
GAUGE SN #1566

TEST: 4
FORMATION: DOUGLAS (LOWER)
TOWNSHIP: 31S
COUNTY: BARBER
RANGE: 4300

TICKET #18142
LEASE: NITTLER
GEOLOGIST: MOORE
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3817 FT TO: 3828 FT TOTAL DEPTH: 3828 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3812 FT SIZE: 6 3/4 IN PAKER DEPTH: 3817 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDERBARAN
MUD TYPE: CHEMICAL VISCOSITY: 57
WEIGHT: 9.2 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 12000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 540 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3257 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 11 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 THROUGHOUT TEST.

RECOVERED: 480 FT OF: GASSY MUD
RECOVERED: 180 FT OF: WATERY GASSY MUD
RECOVERED: 600 FT OF: GASSY WATER
RECOVERED: FT OF: CHLORIDES 66000 PPM
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SLID TOOL 10 FEET TO BOTTOM.

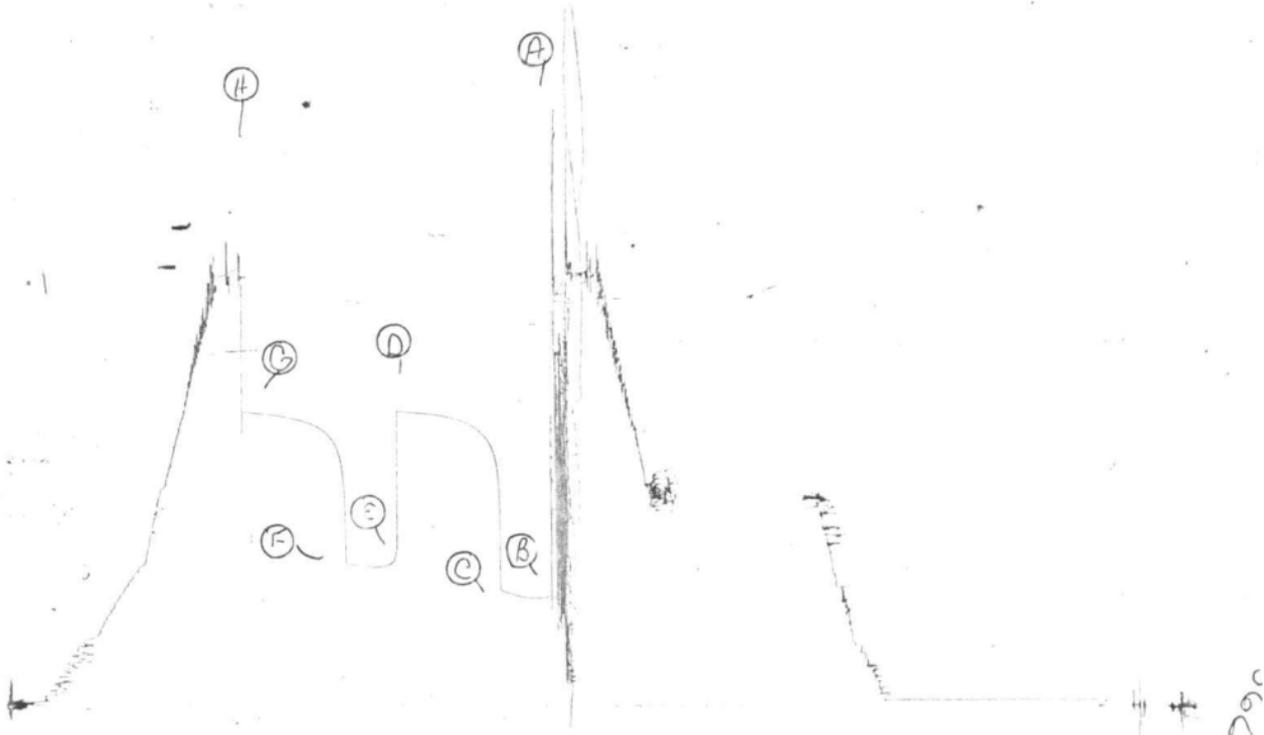
TIME SET PACKER(S): 4:10 P.M. TIME STARTED OFF BOTTOM: 7:10 P.M.
WELL TEMPERATURE: 112 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1876 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 471 PSI TO (C) 505 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1276 PSI
FINAL FLOW PERIOD MIN: 30 (E) 603 PSI TO (F) 621 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1271 PSI
FINAL HYDROSTATIC PRESSURE (H) 1876 PSI

1566

DST # 4

TKT # 18142

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T.K.T. # 18142

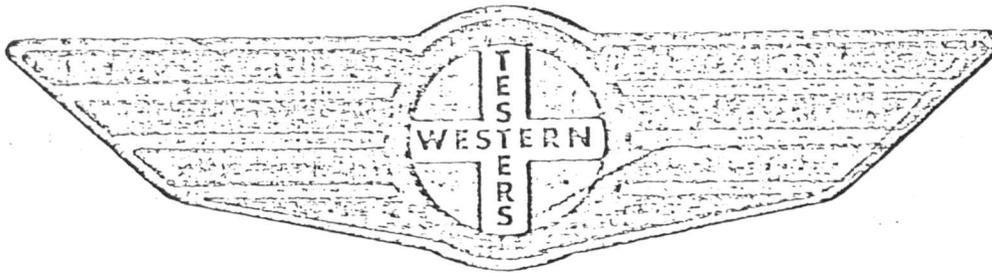
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FORMATION

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 NITTLER _____ Sec. _____ 4 _____ Twp. 31S _____ Rge. _____ 14W _____ Test No. _____ 3 _____ Date 6/1/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/7/84
CUSTOMER: W L KIRKMAN INC.
WELL: 1 TEST: 5
ELEVATION (KB): 1726 FORMATION: LANSING
SECTION: 4 TOWNSHIP: 31S
RANGE: 14W COUNTY: BARBER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3913 FT TO: 3952 FT TOTAL DEPTH: 3952 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3908 FT SIZE: 6 3/4 IN PAKER DEPTH: 3913 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN
MUD TYPE: CHEMICAL VISCOSITY: 49
WEIGHT: 9.2 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 15000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? YES
DRILL COLLAR LENGTH: 540 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3353 FT I.D.: 3.2 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 39 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 FH IN

BLOW: FAIR BLOW THROUGHOUT TEST.

RECOVERED: 540 FT OF: WATER - FEW SPECKS OF OIL ON TOP
RECOVERED: FT OF: CHLORIDES 72000 PPM
RECOVERED: FT OF:
RECOVERED: FT OF:

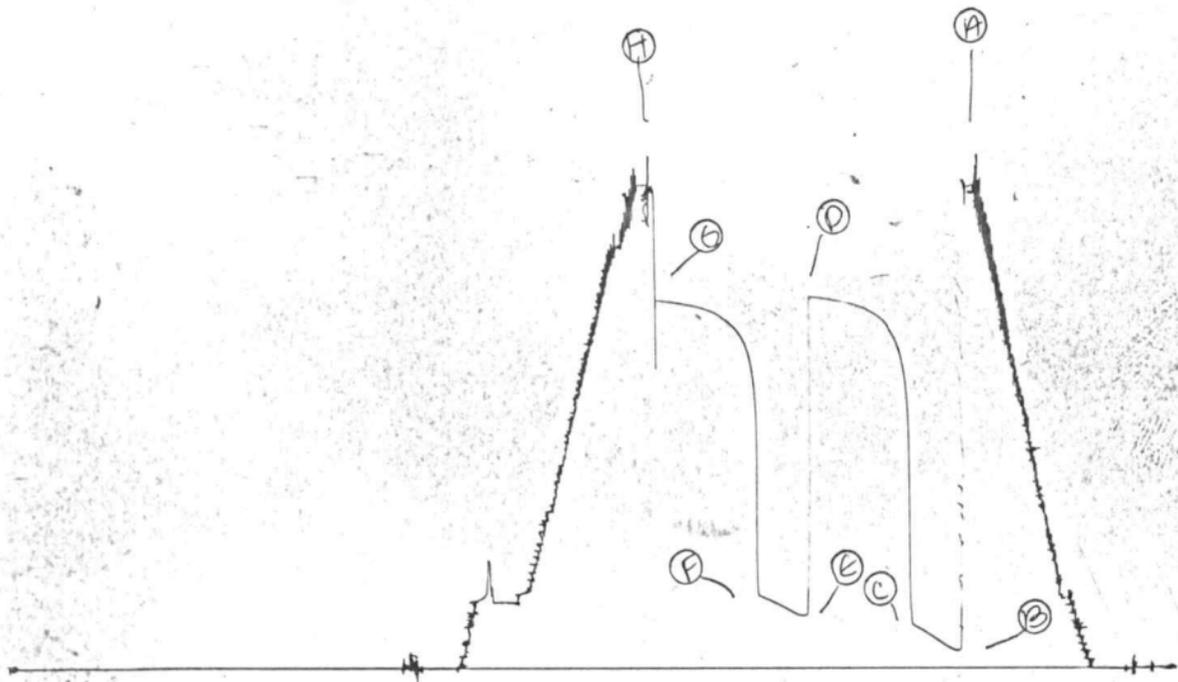
REMARKS:

TIME SET PACKER(S): 11:30 AM TIME STARTED OFF BOTTOM: 2:30 PM
WELL TEMPERATURE: 112 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1922 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 69 PSI TO (C) 175 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1467 PSI
FINAL FLOW PERIOD MIN: 30 (E) 207 PSI TO (F) 285 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1454 PSI
FINAL HYDROSTATIC PRESSURE (H) 1918 PSI

13404
DST#5

TC# 5577

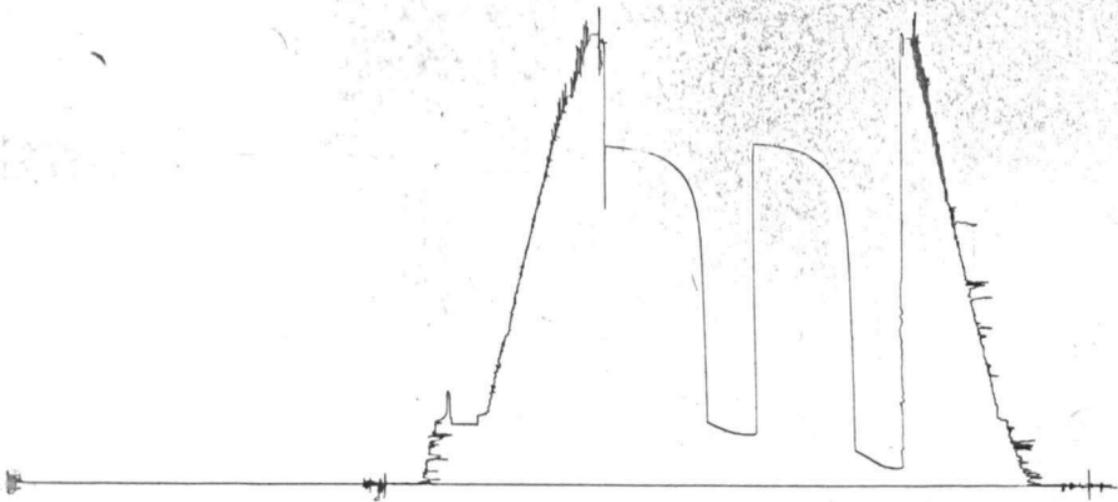
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1859
DST # 5

400# 5577

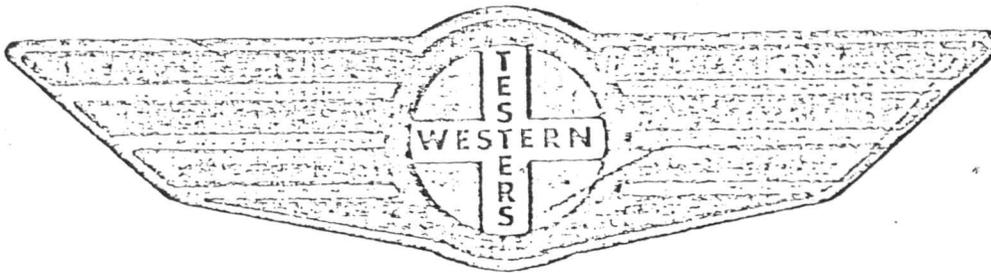
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FORMATION

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 NITTLER
Sec. _____ 4 Twp. 31S Rge. 14W Test No. 6 Date 6/9/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/9/84
CUSTOMER: W L KIRKMAN INC.
WELL: 1 TEST: 6
ELEVATION (KB): 1726 FORMATION: VIOLA
SECTION: 4 TOWNSHIP: 31S
RANGE: 14W COUNTY: BARBER STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4426 FT TO: 4449 FT TOTAL DEPTH: 4449 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4421 FT SIZE: 6 3/4 IN PAKER DEPTH: 4426 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN
MUD TYPE: CHEMICAL VISCOSITY: 47
WEIGHT: 9.2 WATER LOSS (CC): 9.2
CHLORIDES (P.P.M.): 15000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 540 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3866 FT I.D.: 3.2 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 23 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 FH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW THROUGHOUT.
FINAL FLOW PERIOD GAS TO SURFACE IN 1 MINUTE.
TOO SMALL TO MEASURE.

RECOVERED: 60 FT OF: MUD
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

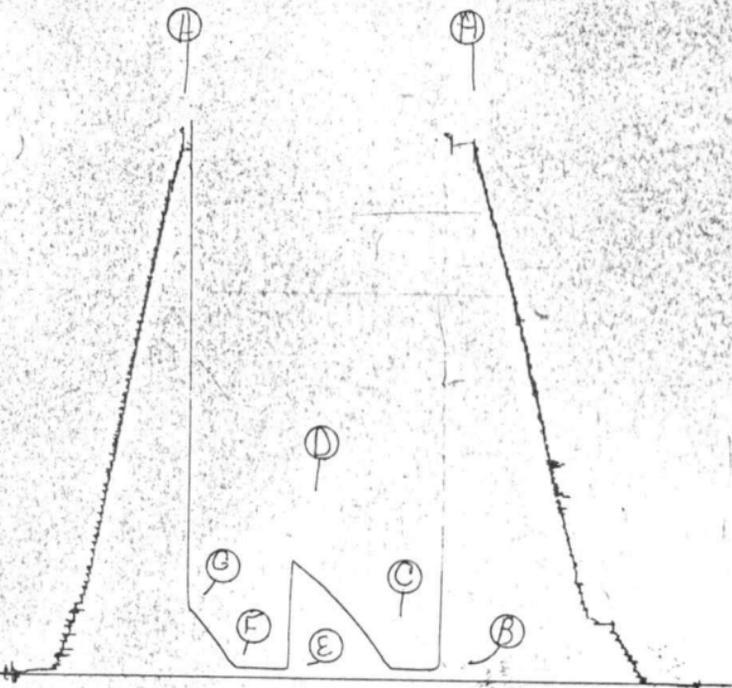
TIME SET PACKER(S): 6:40 AM TIME STARTED OFF BOTTOM: 9:10 AM
WELL TEMPERATURE: 118 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2156 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 44 PSI TO (C) 44 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 468 PSI
FINAL FLOW PERIOD MIN: 30 (E) 37 PSI TO (F) 41 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 276 PSI
FINAL HYDROSTATIC PRESSURE (H) 2122 PSI

13402

DST #6

TKT #5578

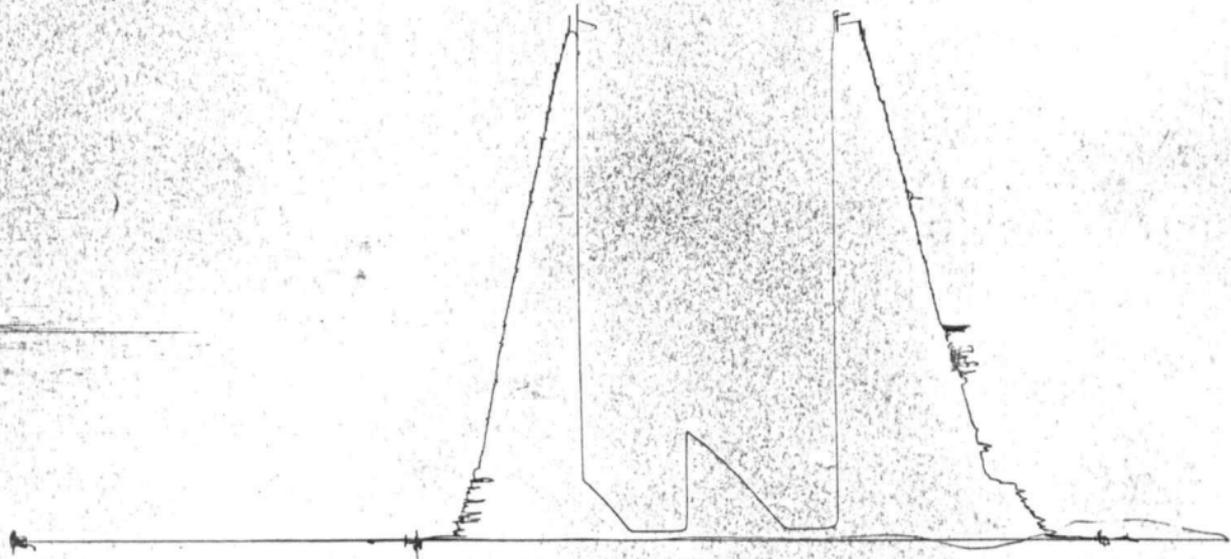
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1557
DST #6

TKT# 5578

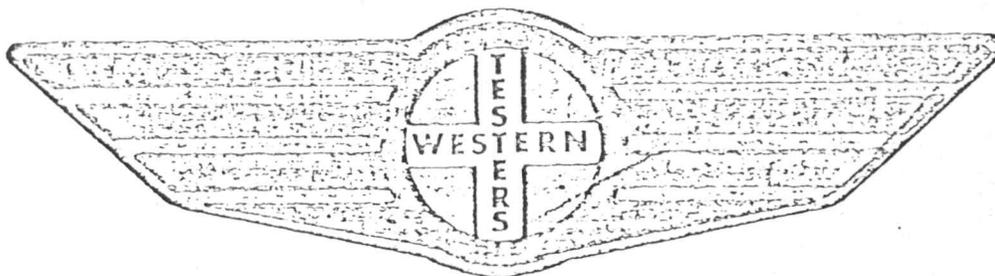
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REPORT



Home Office:

Wichita, Kansas 67201

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Company W L KIRKMAN, INC. Lease and Well No. #1 NITTLER Sec. 4 Twp. 31S Rge. 14W Test No. 7 Date 6/10/8

WESTERN TESTING COMPANY INC
SUBSURFACE PRESSURE SURVEY

DATE: 6/10/84
 CUSTOMER: W.L. KIRKMAN INC.
 WELL: #1 TEST: 7
 ELEVATION (KB): 1726 FORMATION: SIMPSON
 SECTION: 4 TOWNSHIP: 31S
 RANGE: 14W COUNTY: BARBER STATE: KANSAS
 GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 4540 FT TO: 4577 FT TOTAL DEPTH: 4577 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4535 FT SIZE: 6 3/4 IN PACKER DEPTH: 4540 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN
 MUD TYPE: CHEM VISCOSITY: 45
 WEIGHT: 9.3 WATER LOSS (CC): 10.0
 CHLORIDES (P.P.M.): 12000
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? YES
 DRILL COLLAR LENGTH: 540 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 3980 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 FH IN

BLOW: BOTH INITIAL & FINAL FLOW PERIODS
 HAD WEAK BLOWS BUILDING TO STRONG.

RECOVERED: 60 FT OF: VERY SLIGHTLY OIL CUT WATERY MUD.
 RECOVERED: 720 FT OF: WATER; CHLORIDES 42000 P.P.M.
 RECOVERED: FT OF:
 RECOVERED: FT OF:

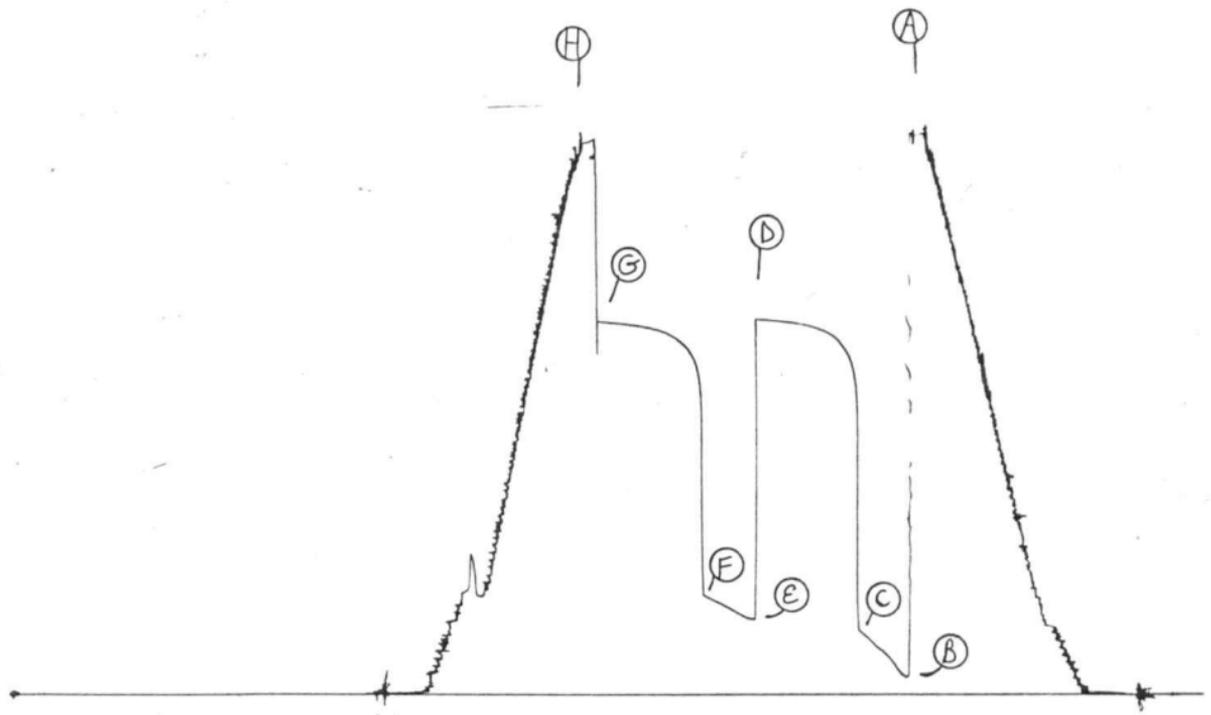
REMARKS:

TIME SET PACKER(S): 4:05 A.M. TIME STARTED OFF BOTTOM: 7:05 A.M.
 WELL TEMPERATURE: 120 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2229 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 71 PSI TO (C) 248 PSI
 INITIAL CLOSED IN PERIOD MIN: 60 (D) 1488 PSI
 FINAL FLOW PERIOD MIN: 30 (E) 295 PSI TO (F) 388 PSI
 FINAL CLOSED IN PERIOD MIN: 60 (G) 1478 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2198 PSI

13402
DST #)

TKT # 5579

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1507
DST*7

TKT. # 5579

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