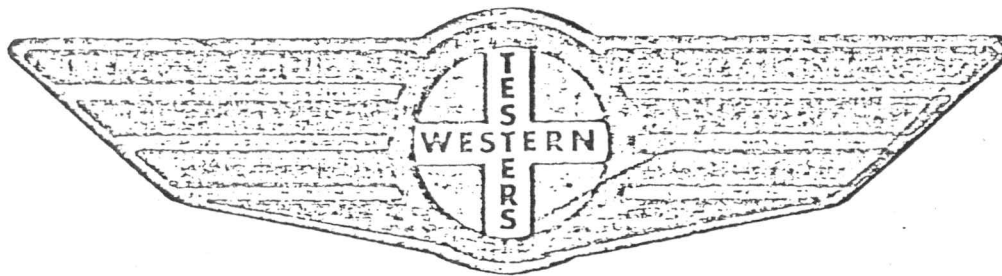


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company W L HARTMAN ESTATE Lease and Well No. #3 "B" MUSENBERG Sec. 33 Twp. 19S Rge. 12W Test No. 1 Date 2/21/83

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12/21/83
CUSTOMER: W.L. HARTMAN
WELL: 3
ELEVATION (KB): 0
SECTION: 33
RANGE: 12W
GAUGE SN #13555

TEST: 1
FORMATION: LANSING K.C.
TOWNSHIP: 19S
COUNTY: BARTON
RANGE: 4025

TICKET #2417
LEASE: "B" MUSENBERG
GEOLOGIST: B.B. REINHARDT
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3116 FT TO: 3170 FT TOTAL DEPTH: 3170 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3111 FT SIZE: 6 5/8 IN PACKER DEPTH: 3116 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANNITTI
MUD TYPE: STARCH VISCOSITY: 41
WEIGHT: 9.8 WATER LOSS (CC): 3.6
CHLORIDES (P.P.M.): 60000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 570 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2425 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 54 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: VERY WEAK BLOW. DIED IN 12 MINUTES.
FLUSHED TOOL.

RECOVERED: 10 FT OF: MUD WITH FEW OIL SPECKS.
RECOVERED: FT OF: CHLORIDES 58000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

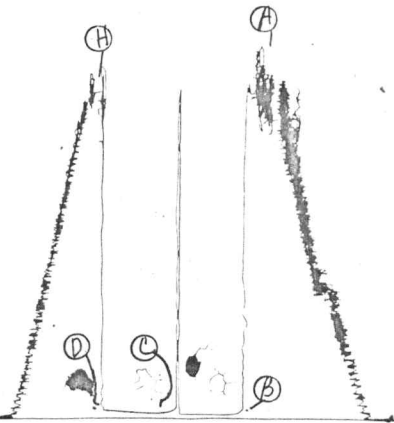
REMARKS: 32 FEET OF WEIGHT PIPE IN ANCHOR.

TIME SET PACKER(S): 6:15 PM TIME STARTED OFF BOTTOM: 7:45 PM
WELL TEMPERATURE: 96 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1658 PSI
INITIAL FLOW PERIOD MIN: 60 (B) 25 PSI TO (C) 31 PSI
INITIAL CLOSED IN PERIOD MIN: 42 (D) 44 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 1658 PSI

TKT # 2417

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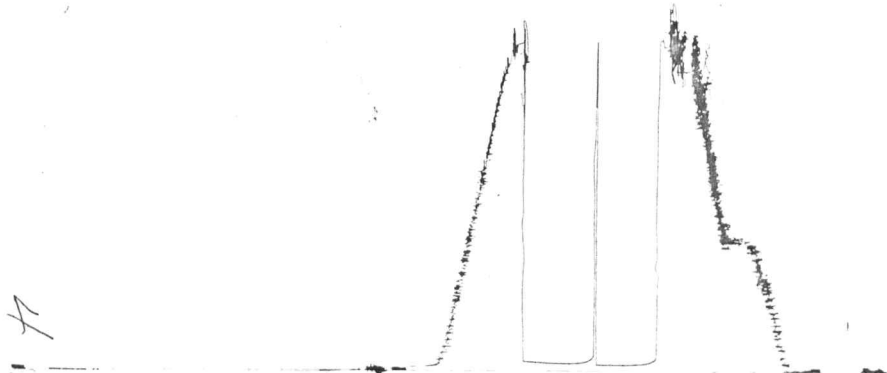
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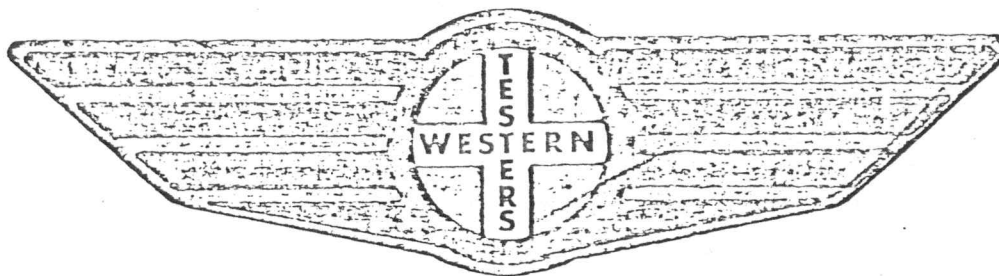
TKT # 2417

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12/22/83
CUSTOMER: W.L. HARTMAN
WELL: 3
ELEVATION (KB): 0
SECTION: 33
RANGE: 12W
GAUGE SN #13555

TEST: 2
FORMATION: LANSING K.C.
TOWNSHIP: 19S
COUNTY: BARTON
RANGE: 4025

TICKET #2418
LEASE: "B" MUSENBERG
GEOLOGIST: B.B. REINHARDT
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3171 FT TO: 3205 FT TOTAL DEPTH: 3205 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3166 FT SIZE: 6 5/8 IN PACKER DEPTH: 3171 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANNITTI
MUD TYPE: STARCH VISCOSITY: 46
WEIGHT: 9.7 WATER LOSS (CC): 3
CHLORIDES (P.P.M.): 60000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 600 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2550 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 34 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: VERY WEAK BLOW. DIED IN 5 MINUTES.
FLUSHED TOOL.

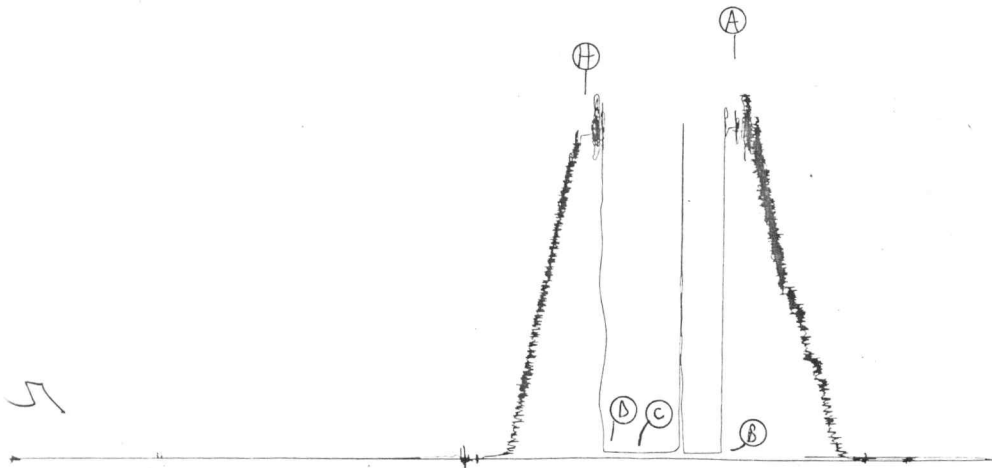
RECOVERED: 5 FT OF: MUD WITH FEW SPECKS OF OIL.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 1:00 PM TIME STARTED OFF BOTTOM: 2:30 PM
WELL TEMPERATURE: 95 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1694 PSI
INITIAL FLOW PERIOD MIN: 60 (B) 35 PSI TO (C) 37 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 42 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 1652 PSI

TKT # 2418

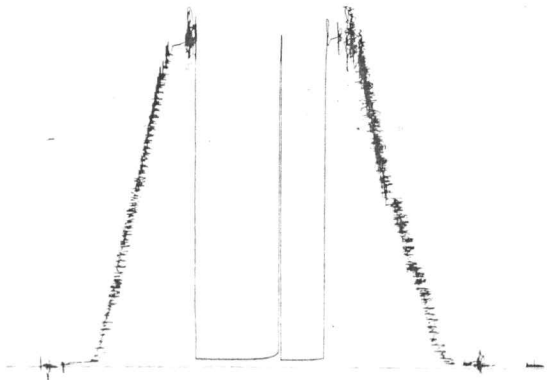
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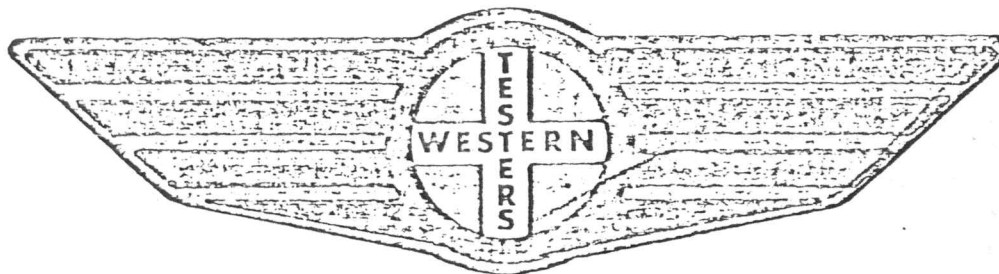
TKT # 2418



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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

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Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12/23/83
CUSTOMER: W. L. HARTMAN
WELL: 3
ELEVATION (KB): 0
SECTION: 33
RANGE: 12W
GAUGE SN #13555

TEST: 3
FORMATION: LANS-KANSAS CITY
TOWNSHIP: 19S
COUNTY: BARTON
RANGE: 4025

TICKET #2419
LEASE: "B" MUSENBERG
GEOLOGIST: B. REINHARDT
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3255 FT TO: 3315 FT TOTAL DEPTH: 3315 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3250 FT SIZE: 6 5/8 IN Packer DEPTH: 3255 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANNITTI #1
MUD TYPE: STARCH VISCOSITY: 44
WEIGHT: 9.8+ WATER LOSS (CC): 4.8
CHLORIDES (P.P.M.): 75000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 570 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2664 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 60 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 F.H. IN

BLOW: VERY WEAK DIED IN 20 MINUTES. FLUSHED TOOL.

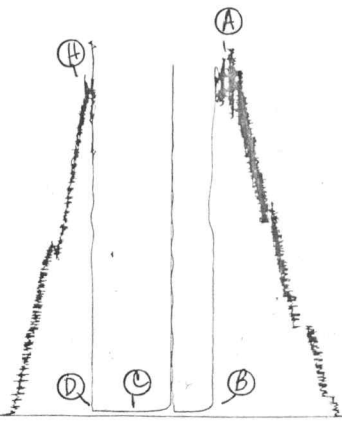
RECOVERED: 10	FT	OF: MUD
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 1:45 P.M.	TIME STARTED OFF BOTTOM: 3:15 P.M.
WELL TEMPERATURE: 96 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1690 PSI
INITIAL FLOW PERIOD MIN: 60	(B) 25 PSI TO (C) 25 PSI
INITIAL CLOSED IN PERIOD MIN: 27	(D) 28 PSI
FINAL FLOW PERIOD MIN: 0	(E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0	(G) 0 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1678 PSI

TKT # 2419

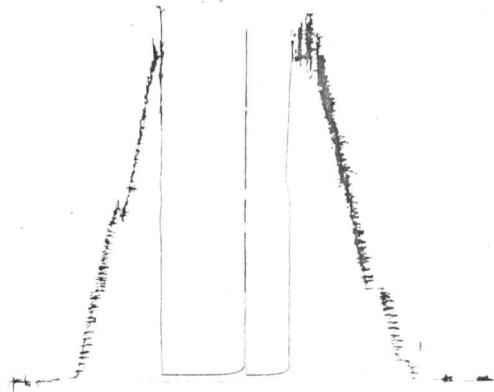
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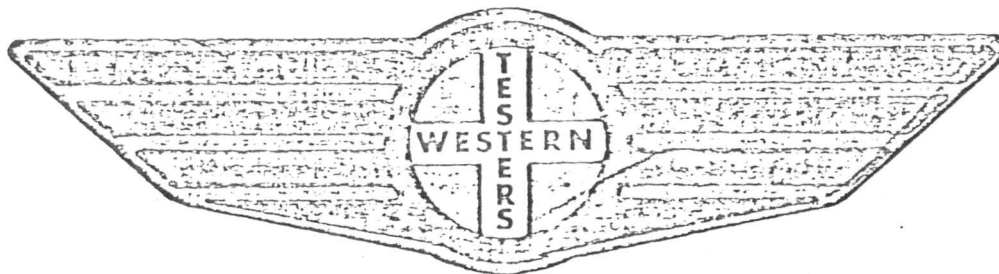
TKT # 2419

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 12/28/83
CUSTOMER: W.L. HARTMAN ESTATE
WELL: 3 TEST: 4
ELEVATION (KB): 0 FORMATION: LANSING KC
SECTION: 33 TOWNSHIP: 19S
RANGE: 12W COUNTY: BARTON STATE: KANSAS
GAUGE SN #13555 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3317 FT TO: 3363 FT TOTAL DEPTH: 3363 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3312 FT SIZE: 6 5/8 IN PACKER DEPTH: 3317 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WOODMAN-IANNITTI #1
MUD TYPE: STARCH VISCOSITY: 40
WEIGHT: 9.8 WATER LOSS (CC): 5.2
CHLORIDES (P.P.M.): 75000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 600 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2696 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 46 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 FH IN

BLOW: VERY WEAK DEAD IN 25 MINUTES.
FLUSHED TOOL.

RECOVERED: 120 FT OF: MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
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RECOVERED: FT OF:
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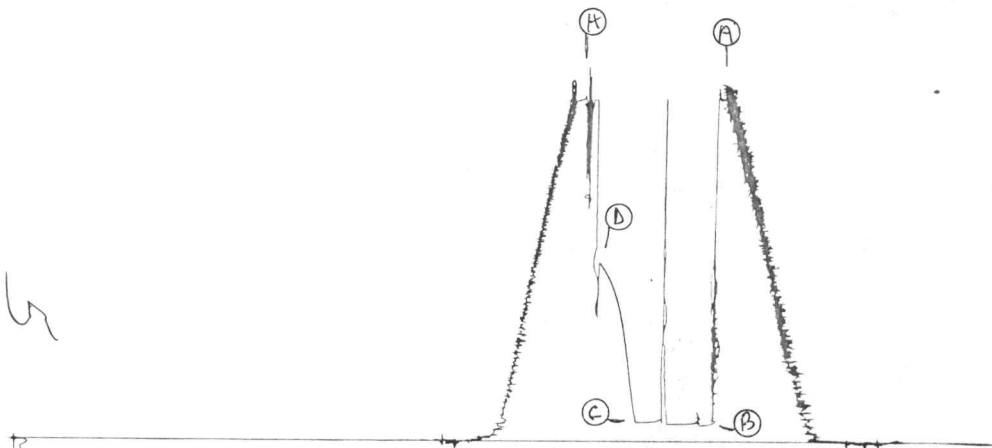
REMARKS: SLID TOOL 12' TO BOTTOM. PICKED
UP MUD WHILE SLIDING.

TIME SET PACKER(S): 3:00 A.M. TIME STARTED OFF BOTTOM: 4:30 A.M.
WELL TEMPERATURE: 98 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1746 PSI
INITIAL FLOW PERIOD MIN: 55 (B) 83 PSI TO (C) 98 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 901 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 1738 PSI

tlc# 2420

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tick# 2420
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