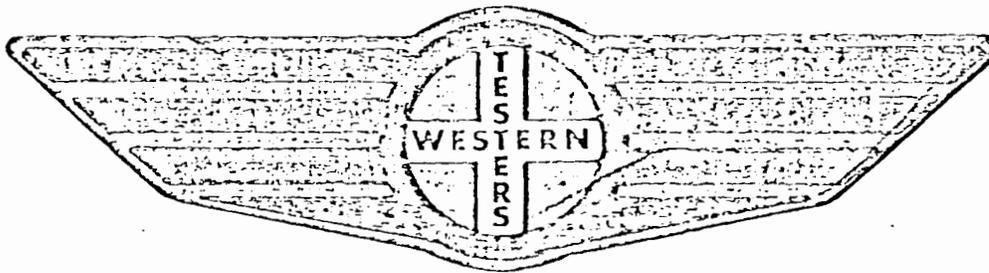


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company ABERCROMBIE DRILLING INC. Lease and Well No. # JONES Sec. 15 Twp. 18S Rge. 18W Test No. 1 Date 3/21/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/21/84
CUSTOMER: ABERCROMBIE DRILLING INC.
WELL: 3 TEST: 1
ELEVATION (KB): 2063 FORMATION: LANSING
SECTION: 15 TOWNSHIP: 18S
RANGE: 18W COUNTY: RUSH STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

TICKET #4674
LEASE: JONES
GEOLOGIST: PHELPS

INTERVAL TEST FROM: 3460 FT TO: 3495 FT TOTAL DEPTH: 3495 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3455 FT SIZE: 6 5/8 IN PAKER DEPTH: 3460 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ABERCROMBIE
MUD TYPE: STARCH VISCOSITY: 42
WEIGHT: 9.8 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 56000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 597 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 2842 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 35 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 INCREASING TO FAIR
2 3/4 INCH BLOW DURING INITIAL FLOW PERIOD.
FINAL FLOW PERIOD; VERY WEAK 3/8 INCH BLOW.

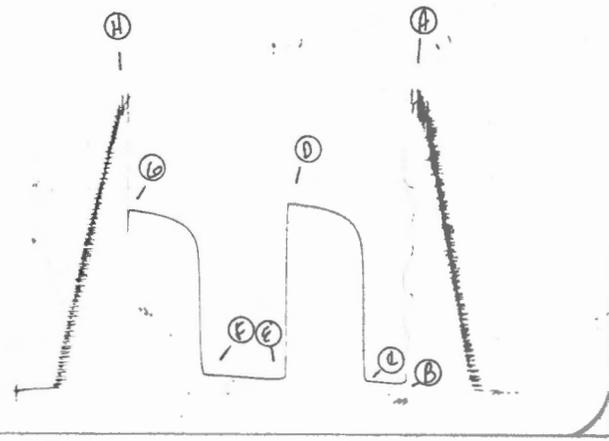
RECOVERED: 30 FT OF: 65% MUD; 35% WATER
RECOVERED: 60 FT OF: 20% MUD; 80% WATER
RECOVERED: 60 FT OF: 68% MUD; 32% WATER
RECOVERED: FT OF: CHLORIDES 71000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 9:08 A.M. TIME STARTED OFF BOTTOM: 12:38 P.M.
WELL TEMPERATURE: 109 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1834 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 58 PSI TO (C) 70 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1183 PSI
FINAL FLOW PERIOD MIN: 60 (E) 83 PSI TO (F) 110 PSI
FINAL CLOSED IN PERIOD MIN: 54 (G) 1144 PSI
FINAL HYDROSTATIC PRESSURE (H) 1834 PSI

St # 4674
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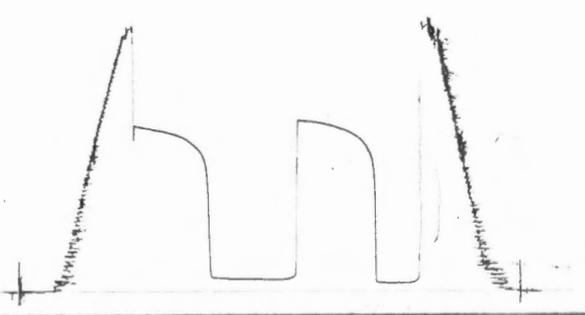
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Inside Recorder

St # 4674
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DST-1

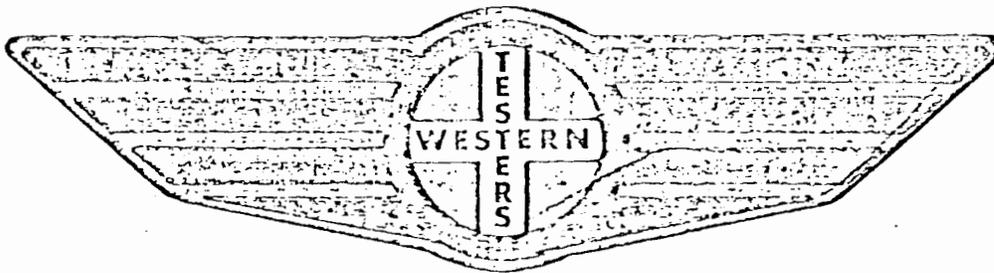


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Home Office:

Wichita, Kansas 67201

P.O. Box 1599

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Company ABERCROMBIE DRILLING INC. Lease and Well No. #3 JONES Sec. 15 Twp. 18S Rge. 18W Test No. 2 Date 2/22/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/22/84
CUSTOMER: ABERCROMBIE DRILLING INC.
WELL: 3 TEST: 2
ELEVATION (KB): 2063 FORMATION: ARBUCKLE
SECTION: 15 TOWNSHIP: 18S
RANGE: 18W COUNTY: RUSH STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3756 FT TO: 3800 FT TOTAL DEPTH: 3800 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3751 FT SIZE: 6 5/8 IN PAKER DEPTH: 3756 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

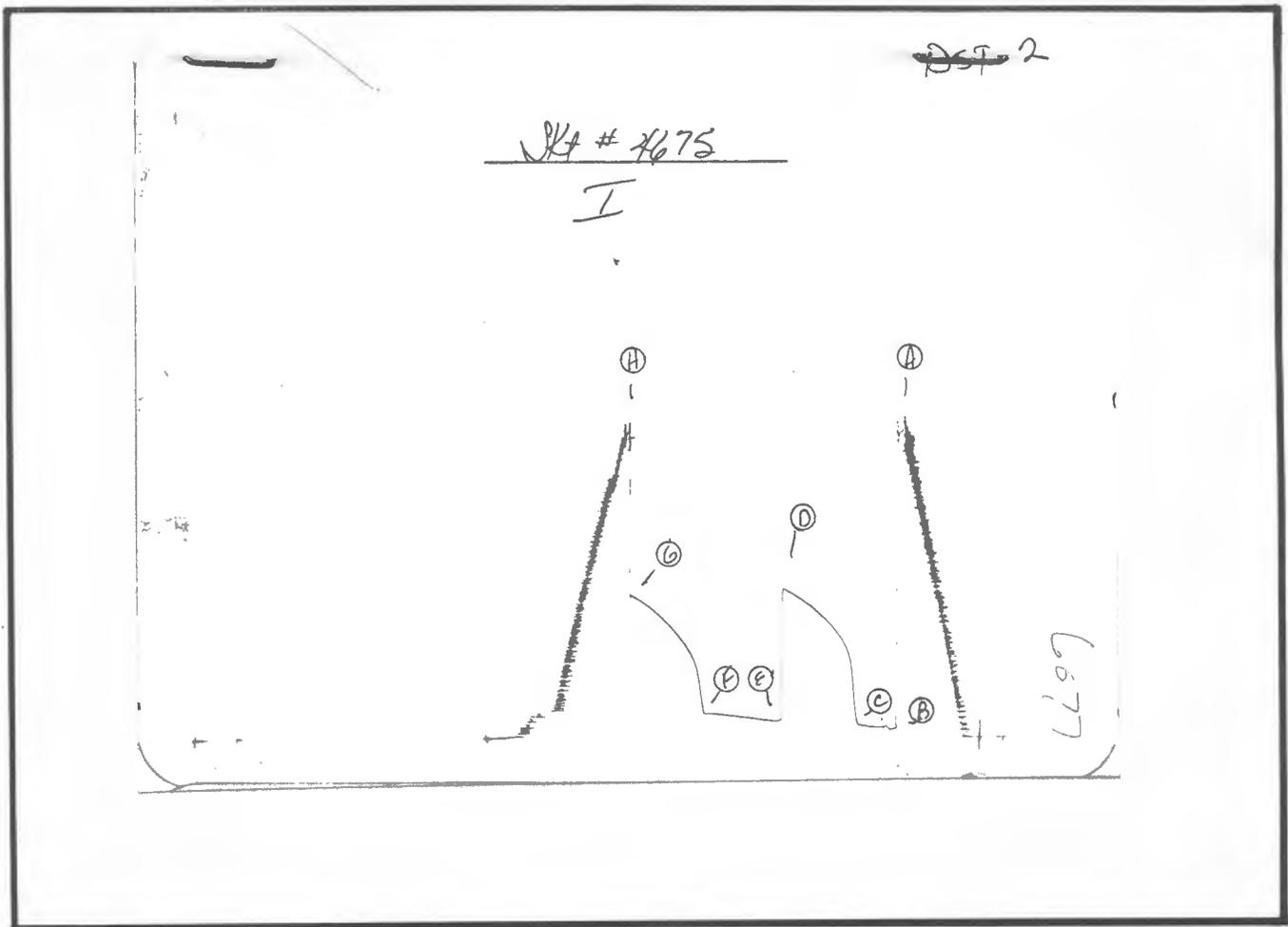
DRILLING CONTRACTOR: ABERCROMBIE
MUD TYPE: STARCH VISCOSITY: 41
WEIGHT: 10.0 WATER LOSS (CC): 12.4
CHLORIDES (P.P.M.): 58000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 597 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 3138 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 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; WEAK INCREASING TO 6 1/2".
FINAL FLOW PERIOD; FAIR TO GOOD; 6" BLOW.

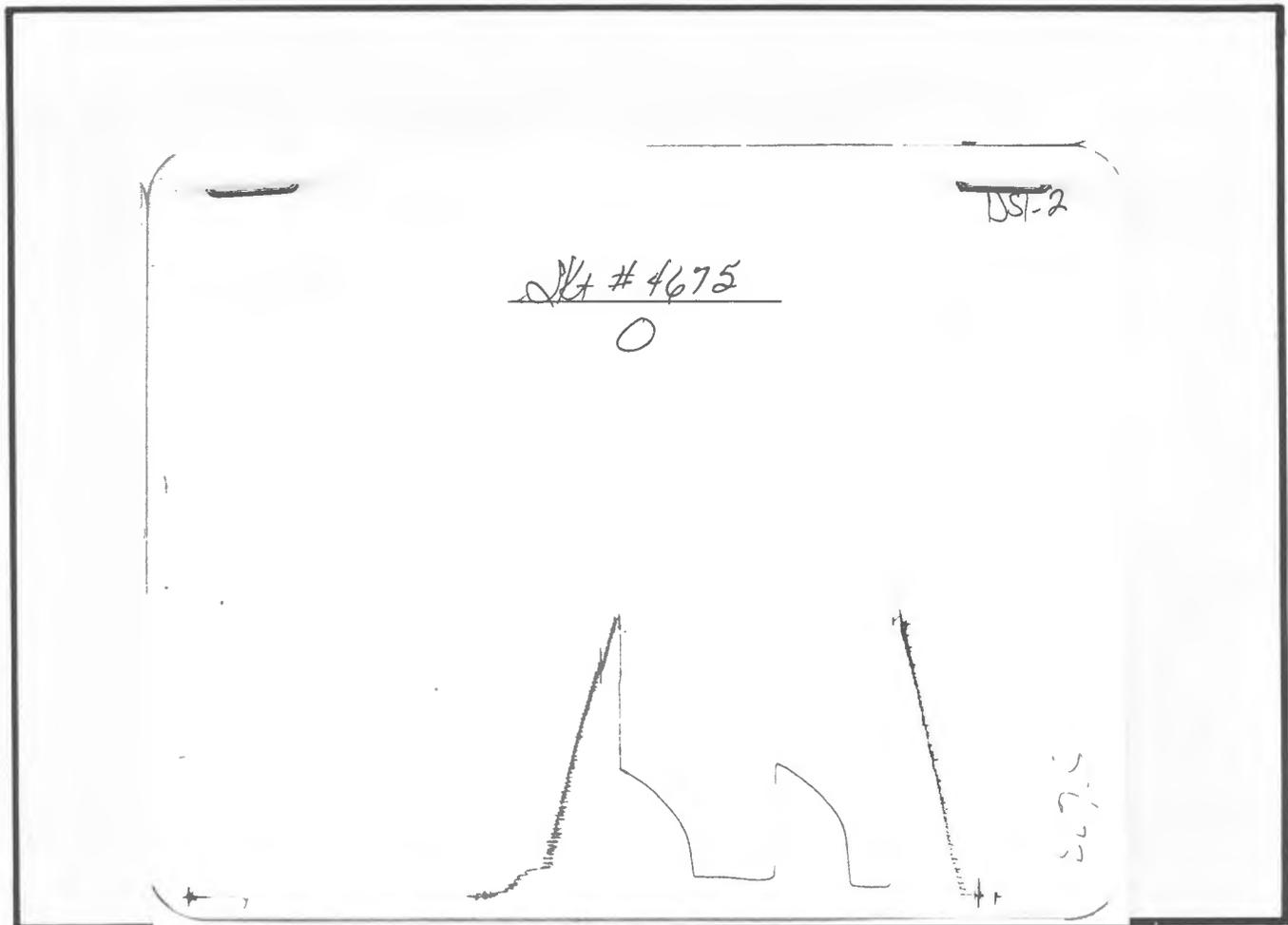
RECOVERED: 340 FT OF: OIL CUT MUD; 54.26 MUD; 49.66 WATER; 221.30 OIL
;
RECOVERED: FT OF: 14.78 GAS
RECOVERED: FT OF:
RECOVERED: FT OF: CHLORIDES 54000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 2:16 P.M. TIME STARTED OFF BOTTOM: 5:46 P.M.
WELL TEMPERATURE: 117 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2007 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 54 PSI TO (C) 81 PSI
INITIAL CLOSED IN PERIOD MIN: 57 (D) 980 PSI
FINAL FLOW PERIOD MIN: 60 (E) 110 PSI TO (F) 162 PSI
FINAL CLOSED IN PERIOD MIN: 57 (G) 942 PSI
FINAL HYDROSTATIC PRESSURE (H) 2007 PSI



Inside Recorder

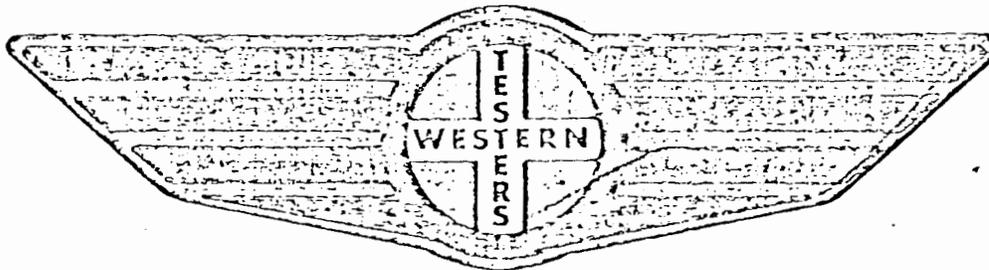


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Home Office:

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P.O. Box 1599

Phone (316) 262-5861

Company ABERCROMBIE DRILLING, INC. Lease and Well No. #3 JONES Sec. 15 Twp. 18S Rge. 18S Test No. 3 Date 2/23/82

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3-23-84
CUSTOMER: ABERCROMBIE DRILLING INC.
WELL: #3 TEST: 3
ELEVATION (KB): 2063 FORMATION: ARBUCKLE
SECTION: 15 TOWNSHIP: 18S
RANGE: 18W COUNTY: RUSH STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

TICKET #2812
LEASE: JONES
GEOLOGIST: ORLIN PHELPS

INTERVAL TEST FROM: 3756 FT TO: 3804 FT TOTAL DEPTH: 3804 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3751 FT SIZE: 6 5/8 IN PAKER DEPTH: 3856 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ABERCROMBIE #4
MUD TYPE: STARCH VISCOSITY: 40
WEIGHT: 10.0 WATER LOSS (CC): 12.4
CHLORIDES (P.P.M.): 58000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?

DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 597 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 3138 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/200 IN
ANCHOR LENGTH: 48 FT SIZE: 5 1/200 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2XH IN

BLOW: INCREASING TO FAIR BLOW DURING INITIAL FLOW PERIOD
4 1/2 DECREASING TO 2 3/4 DURING FINAL FLOW PERIOD

RECOVERED: 64 FT OF: 43% Mud(26.66); 19% Water(11.78); 33% Oil(20.46); 5% Gas(3.2)
RECOVERED: 62 FT OF: 50% Mud(31.00); 19% Water(11.78); 26% Oil(16.12); 5% Gas (3.2)
RECOVERED: 62 FT OF: 28% Mud(17.36); 20% Water(12.40); 47% Oil(29.14); 5% Gas (3.2)
RECOVERED: 62 FT OF: 15% Mud(9.2); 6% Water (3.72); 71% Oil(54.02); 8% Gas (4.96)
RECOVERED: 62 FT OF: 7% Mud(4.34); 5% Water (3.10); 65% Oil(40.30); 23% Gas (14.26)
RECOVERED: 62 FT OF: 8% Mud(4.96); 12% Water (7.44); 70% Oil(43.40); 10% Gas (6.20)
RECOVERED: 94 FT OF: MUD
RECOVERED: 50 FT OF: WATER
RECOVERED: 203 FT OF: OIL
RECOVERED: 35 FT OF: GAS

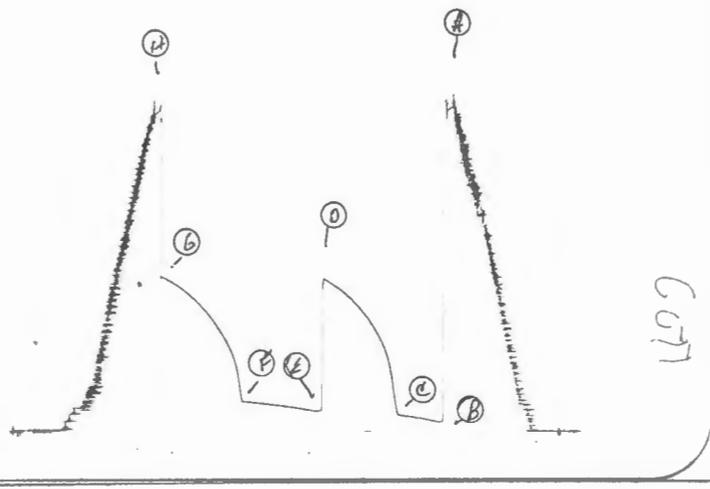
REMARKS: CHLORIDES 57000 PPM.

TIME SET PACKER(S): TIME STARTED OFF BOTTOM:
WELL TEMPERATURE: 117 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2036 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 60 PSI TO (C) 100 PSI
INITIAL CLOSED IN PERIOD MIN: 57 (D) 959 PSI
FINAL FLOW PERIOD MIN: 60 (E) 127 PSI TO (F) 189 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 973 PSI
FINAL HYDROSTATIC PRESSURE (H) 2012 PSI

DST-3

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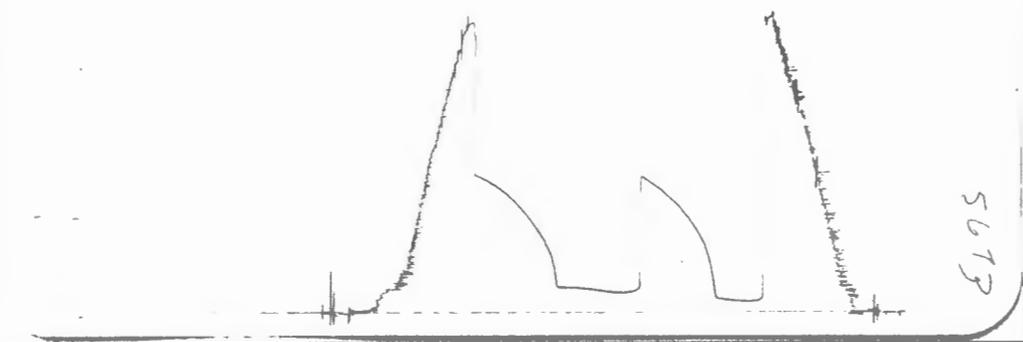


Inside Recorder

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Alt # 2812

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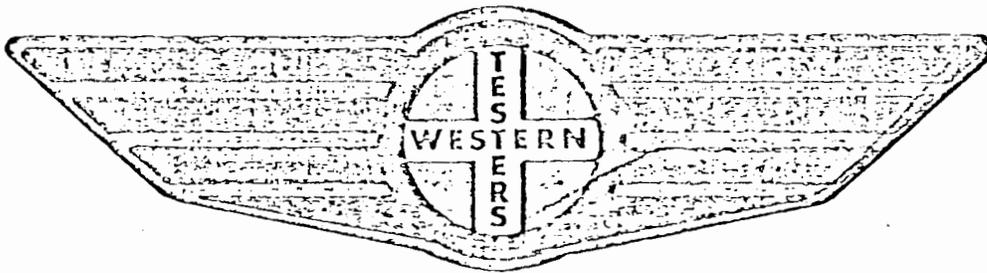


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TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/23/84
CUSTOMER: ABERCROMBIE DRILLING INC.
WELL: 3 TEST: 4
ELEVATION (KB): 2063 FORMATION: ARBUCKLE
SECTION: 15 TOWNSHIP: 18S
RANGE: 18W COUNTY: RUSH STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3756 FT TO: 3809 FT TOTAL DEPTH: 3809 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3751 FT SIZE: 6 5/8 IN PACKER DEPTH: 3756 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ABERCROMBIE
MUD TYPE: STARCH VISCOSITY: 42
WEIGHT: 9.9 WATER LOSS (CC): 8.0
CHLORIDES (P.P.M.): 42000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 597 FT I.D.: 2.7 IN
DRILL PIPE LENGTH: 3138 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 53 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.
OFF BOTTOM OF BUCKET IN 4 1/2 MINUTES.

RECOVERED: 997 FT OF: MUDDY OIL; 50.10 BBLS. MUD; 60.22 BBLS. WATER
RECOVERED: FT OF: 886.68 BBLS. OIL
RECOVERED: FT OF: CHLORIDES 46000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:

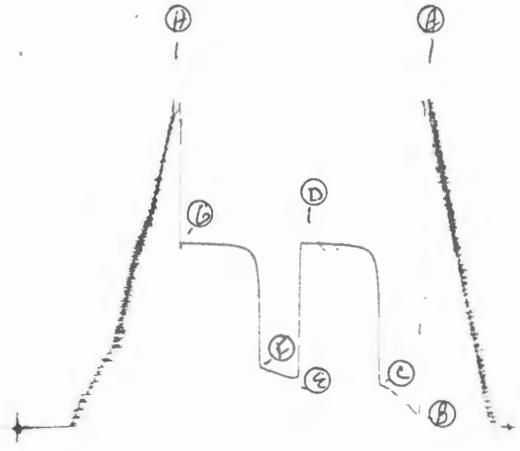
REMARKS:

TIME SET PACKER(S): 3:09 P.M. TIME STARTED OFF BOTTOM: 6:09 P.M.
WELL TEMPERATURE: 118 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1988 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 78 PSI TO (C) 260 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1159 PSI
FINAL FLOW PERIOD MIN: 30 (E) 314 PSI TO (F) 376 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1161 PSI
FINAL HYDROSTATIC PRESSURE (H) 1988 PSI

DST-4 6077

JK #2813

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Inside Recorder

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JK #2813

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Outside Recorder