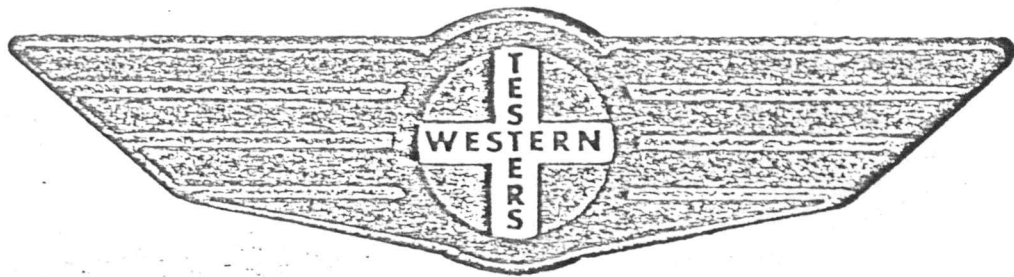


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-10-85
CUSTOMER: PAN WESTERN PETROLEUM INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1215 FORMATION: LANSING
SECTION: 12 TOWNSHIP: 29S
RANGE: 3E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #13266 RANGE: 4000 CLOCK: 12

TICKET #8071

LEASE: "A" WHITTED

GEOLOGIST: BRUCE B. ARD

INTERVAL TEST FROM: 1850 FT TO: 1877 FT TOTAL DEPTH: 1877 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1850 FT SIZE: 6 3/4 IN PACKER DEPTH: 1845 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: BLUE STREAK DRLG. #1
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.2 WATER LOSS (CC): 11
CHLORIDES (P.P.M.): 2000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? GAS REVERSED OUT?
DRILL COLLAR LENGTH: 60 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1768 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 27 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: STRONG BLOW DIMINISHING TO
WEAK BLOW AT END OF TEST.
GAS TO SURFACE 18 MINUTES.

RECOVERED: 330 FT OF: LIGHTLY MUDDY SALT WATER.
RECOVERED: FT OF: 12% RESISTIVITY AT 78 DEGREES.
RECOVERED: FT OF: CHLORIDES 120000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SEE ATTACHED GAS FLOW REPORT.

TIME SET PACKER(S): 11:00 PM

TIME STARTED OFF BOTTOM: 2:45 AM

WELL TEMPERATURE: 99 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 60

INITIAL CLOSED IN PERIOD MIN: 45

FINAL FLOW PERIOD MIN: 55

FINAL CLOSED IN PERIOD MIN: 63

FINAL HYDROSTATIC PRESSURE

(A) 914

PSI

(B) 88

PSI TO (C) 135 PSI

(D) 310

PSI

(E) 194

PSI TO (F) 231 PSI

(G) 321

PSI

(H) 890

PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 5-10-85
CUSTOMER: PAN WESTERN PETROLEUM INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1215 FORMATION: LANSING
SECTION: 12 TOWNSHIP: 29S
RANGE: 3E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #13266 RANGE: 4000 CLOCK: 12

TICKET #8071

LEASE: "A" WHITTED

GEOLOGIST: BRUCE B. ARD

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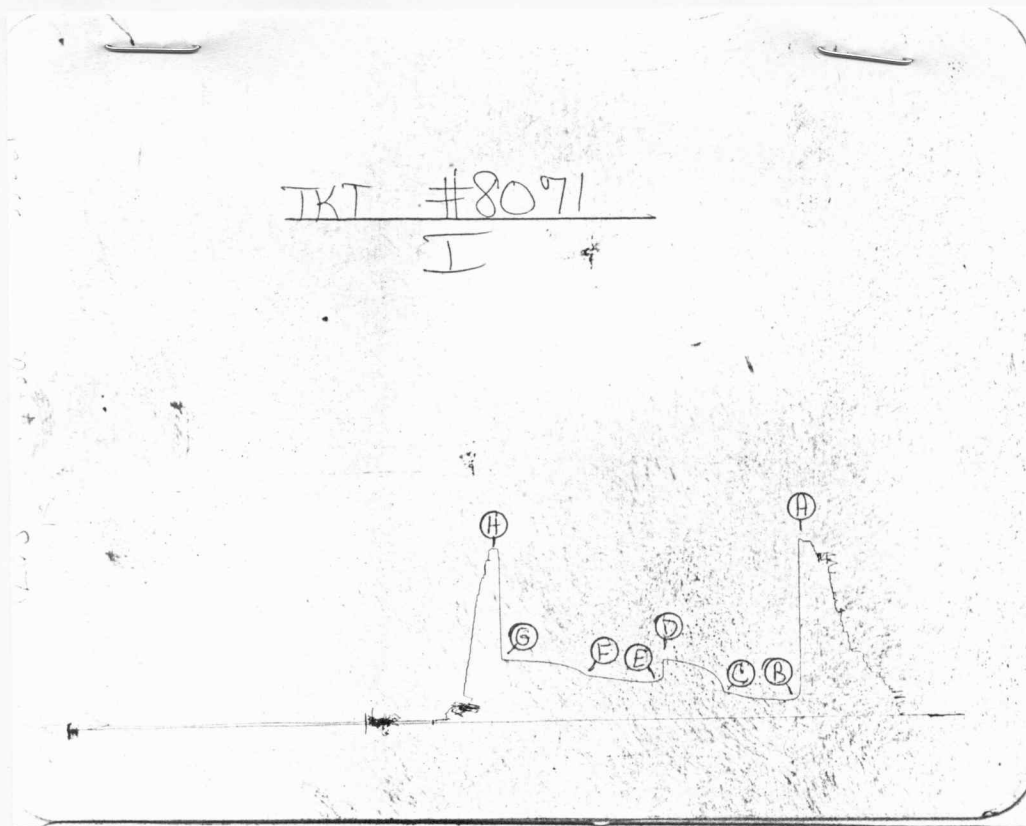
PRE FLOW

18	MERLA	1/4 IN	PSIG	GAS TO SURFACE
30			30	9200 CFPD
35			32	9500
40			25	8350
45			20	7510
50			15	6550
60			15	6550

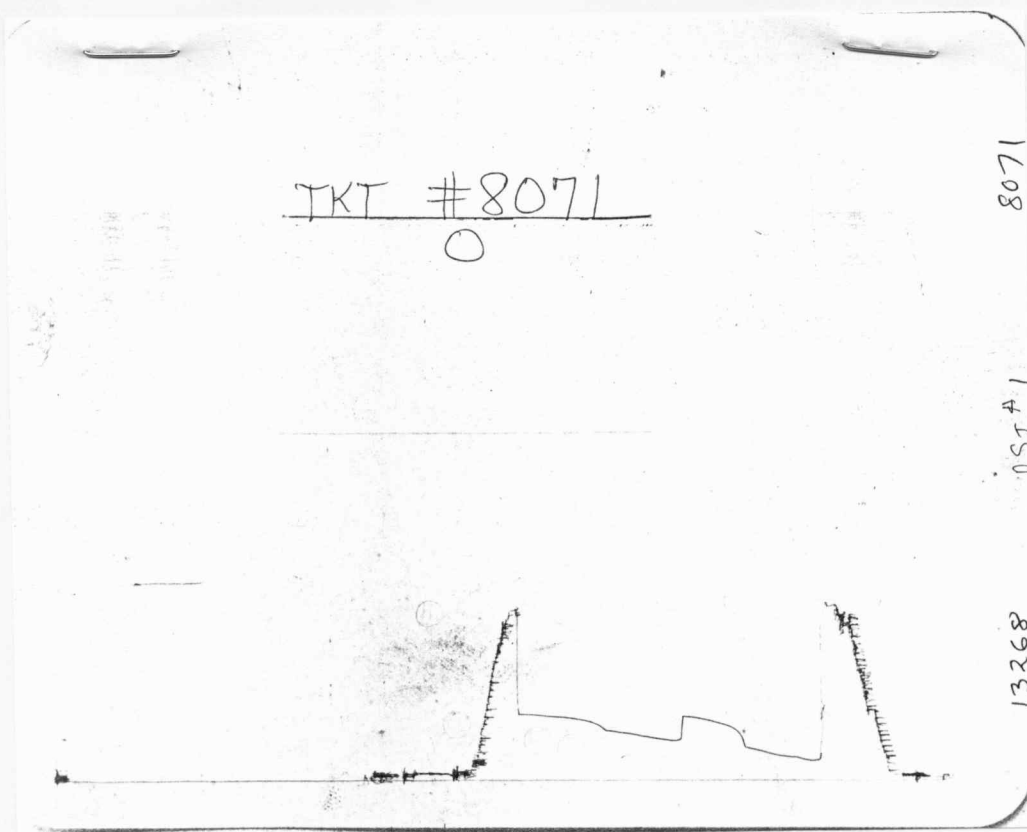
SECOND FLOW

65	MERLA	1/4 IN	7 PSIG	4450 CFPD
70			7	4450
75			2	2370
90				TOO WEAK TO MEASURE.
100				TOO WEAK TO MEASURE.
110				TOO WEAK TO MEASURE.
120				TOO WEAK TO MEASURE.

GAS BOTTLE SN #: 19043 & 91
DATE BOTTLE FILLED: 5-11-85
DATE TO BE INVOICED:

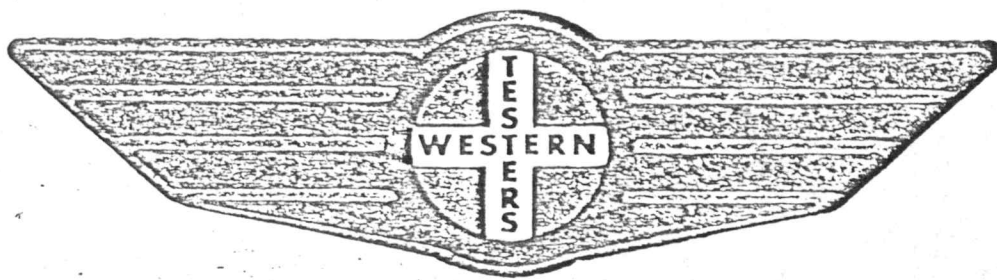


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-12-85
CUSTOMER: PAN WESTERN PETROLEUM INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1215 FORMATION: KANSAS CITY
SECTION: 12 TOWNSHIP: 29S
RANGE: 3E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #13266 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 2191 FT TO: 2230 FT TOTAL DEPTH: 2230 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2191 FT SIZE: 6 3/4 IN PACKER DEPTH: 2186 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

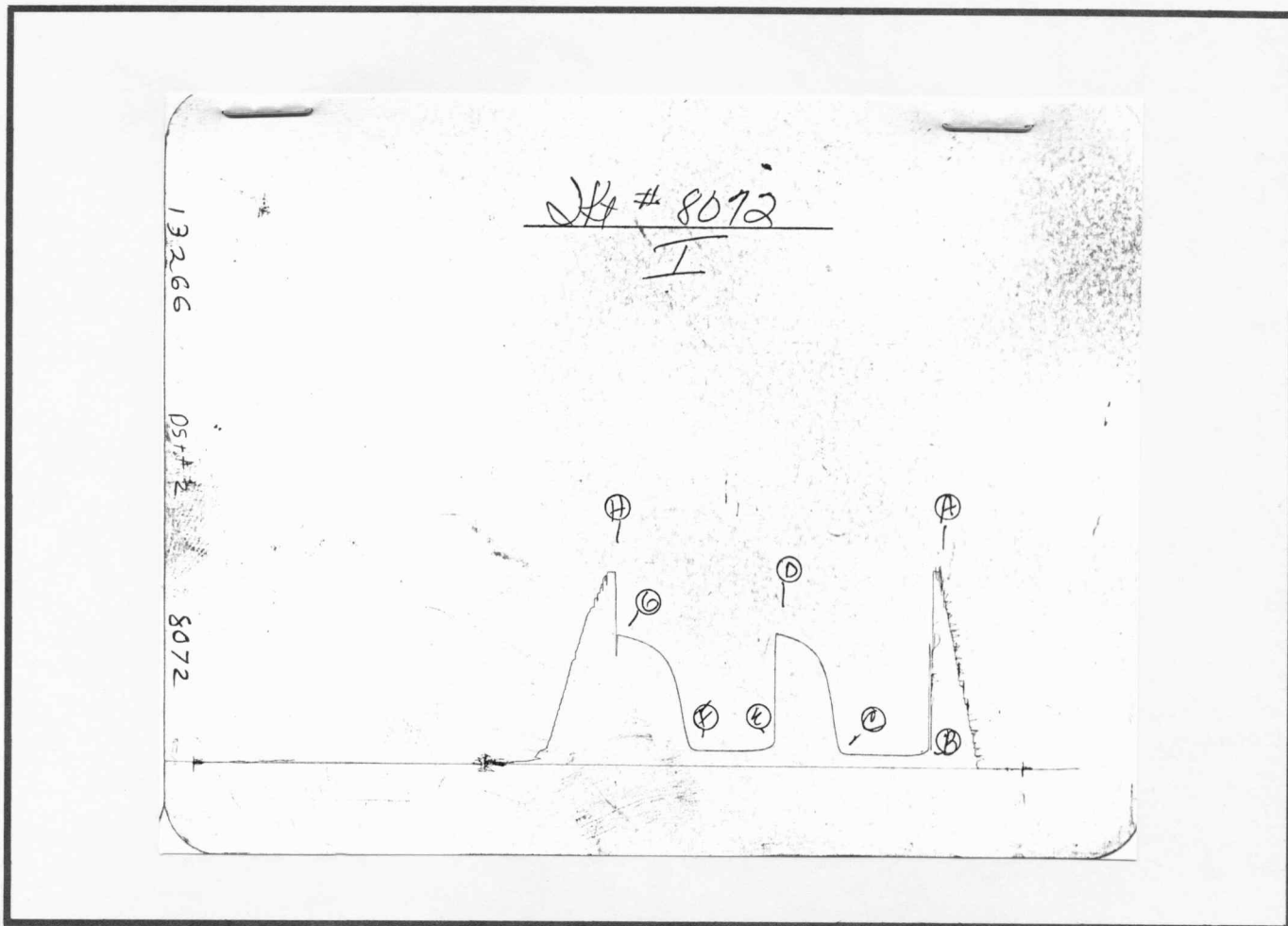
DRILLING CONTRACTOR: BLUE STREAK DRG. #1
MUD TYPE: CHEMICAL VISCOSITY: 37
WEIGHT: 9.4 WATER LOSS (CC): 14.8
CHLORIDES (P.P.M.): 3000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 60 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2110 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 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 1/2 FH IN

BLOW: WEAK BLOW THROUGHOUT TEST.

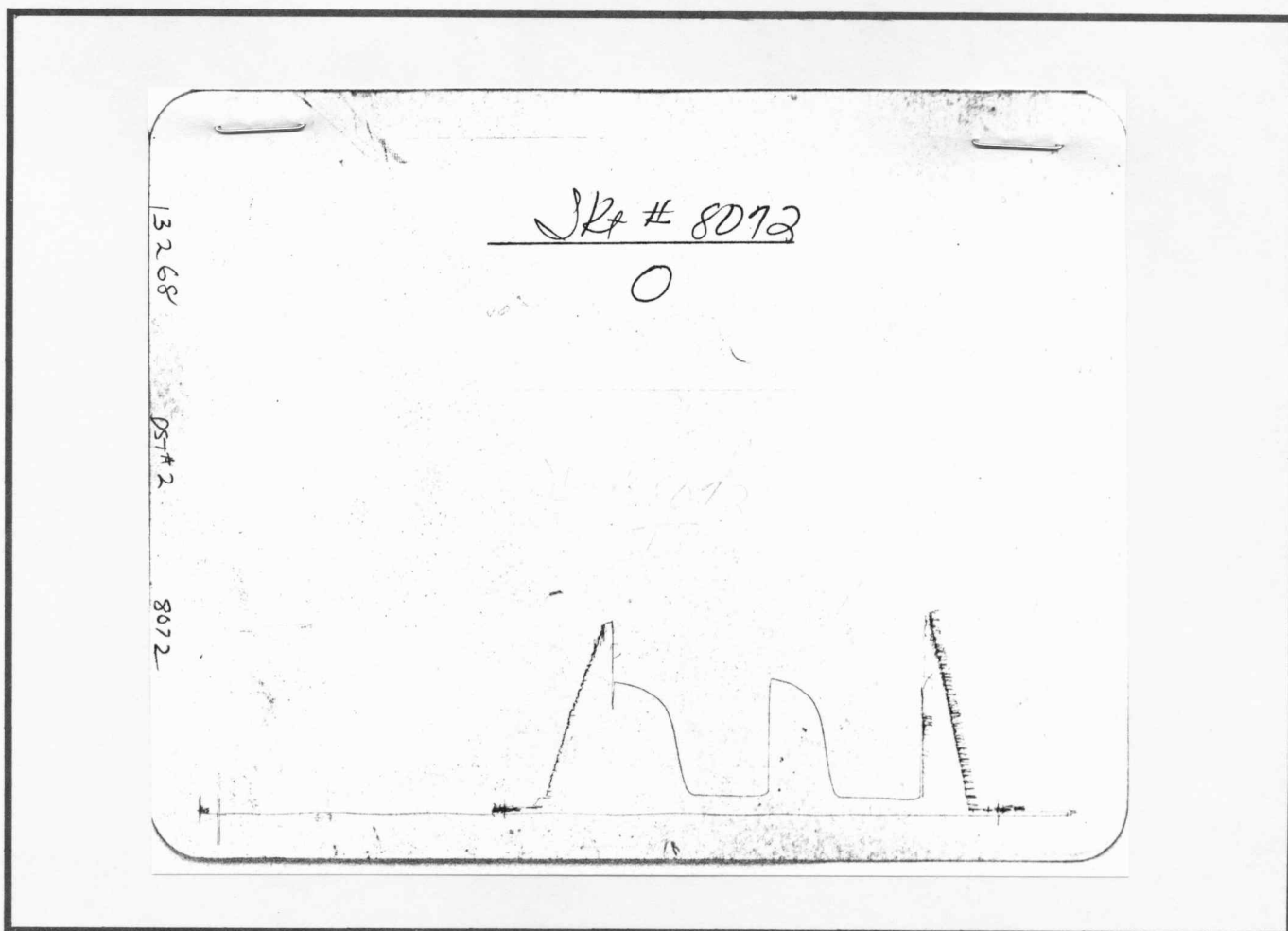
RECOVERED: 105 FT OF: OIL & GAS CUT MUD (10% OIL; 90% MUD).
RECOVERED: FT OF: CHLORIDES 4100 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 12:05 PM TIME STARTED OFF BOTTOM: 4:05 PM
WELL TEMPERATURE: 105 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1082 PSI
INITIAL FLOW PERIOD MIN: 65 (B) 69 PSI TO (C) 73 PSI
INITIAL CLOSED IN PERIOD MIN: 57 (D) 738 PSI
FINAL FLOW PERIOD MIN: 60 (E) 87 PSI TO (F) 88 PSI
FINAL CLOSED IN PERIOD MIN: 63 (G) 724 PSI
FINAL HYDROSTATIC PRESSURE (H) 1066 PSI



Inside Recorder

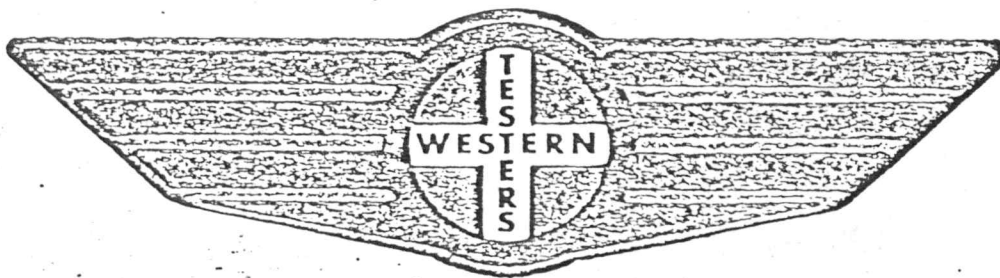


Outside Recorder

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-13-85
CUSTOMER: PAN WESTERN PETROLEUM INC.
WELL: 1
ELEVATION (KB): 1215
SECTION: 12
RANGE: 3E
GAUGE SN #13266

TEST: 3
FORMATION: KANSAS CITY
TOWNSHIP: 29S
COUNTY: BUTLER
RANGE: 4000

TICKET #8073
LEASE: "A" WHITTED
GEOLOGIST: BRUCE B. ARD
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 2236 FT TO: 2260 FT TOTAL DEPTH: 2260 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2236 FT SIZE: 6 3/4 IN PAKER DEPTH: 2231 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

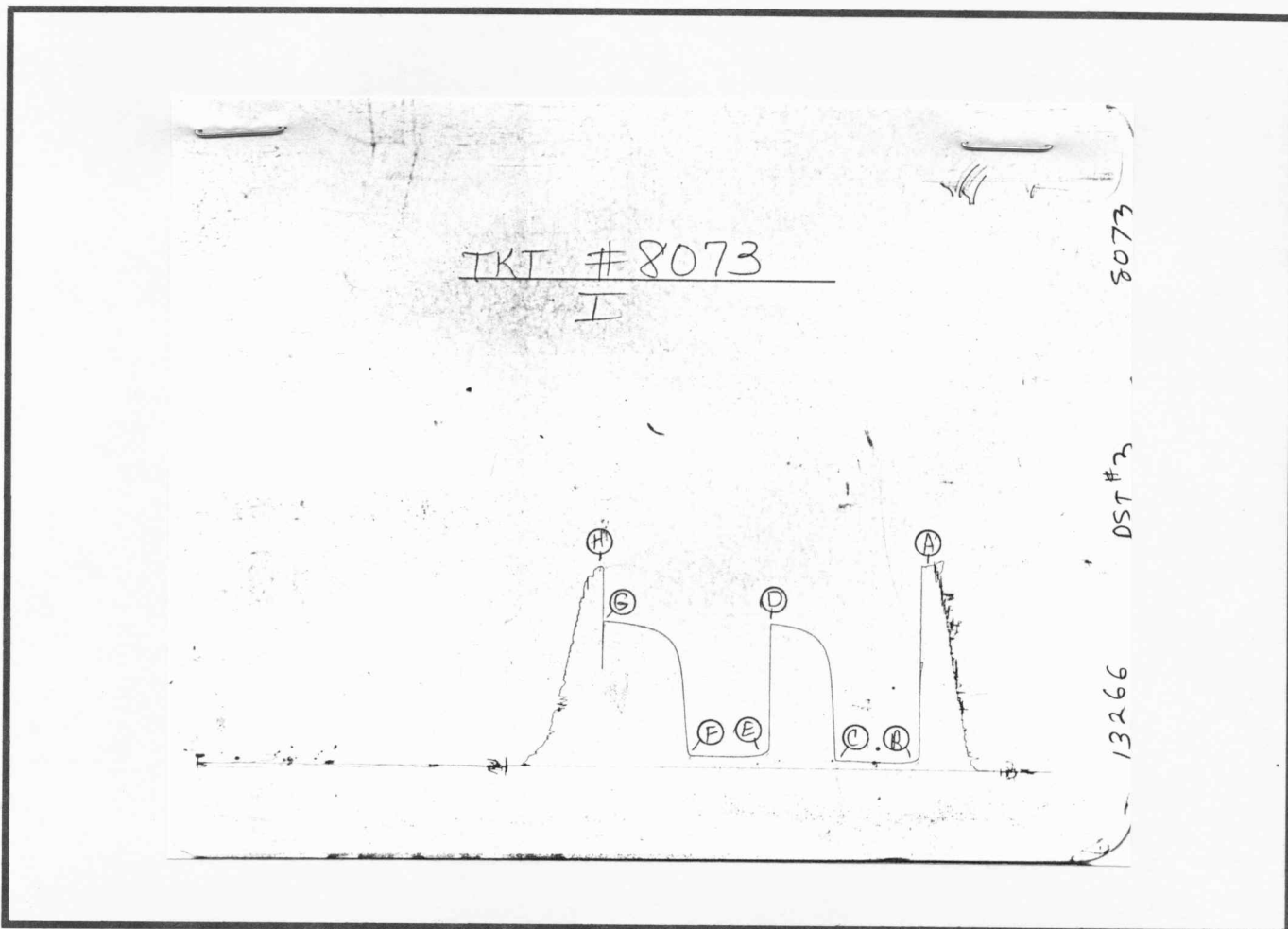
DRILLING CONTRACTOR: BLUE STREAK DRLG. #1
MUD TYPE: CHEMICAL VISCOSITY: 40
WEIGHT: 9.5 WATER LOSS (CC): 12.2
CHLORIDES (P.P.M.): 3000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 60 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2154 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 24 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: INITIAL FLOW PERIOD WEAK STEADY
BLOW FOR 60 MINUTES.
FINAL FLOW PERIOD DEAD 8 MINUTES;
WEAK BLOW FOR 53 MINUTES.

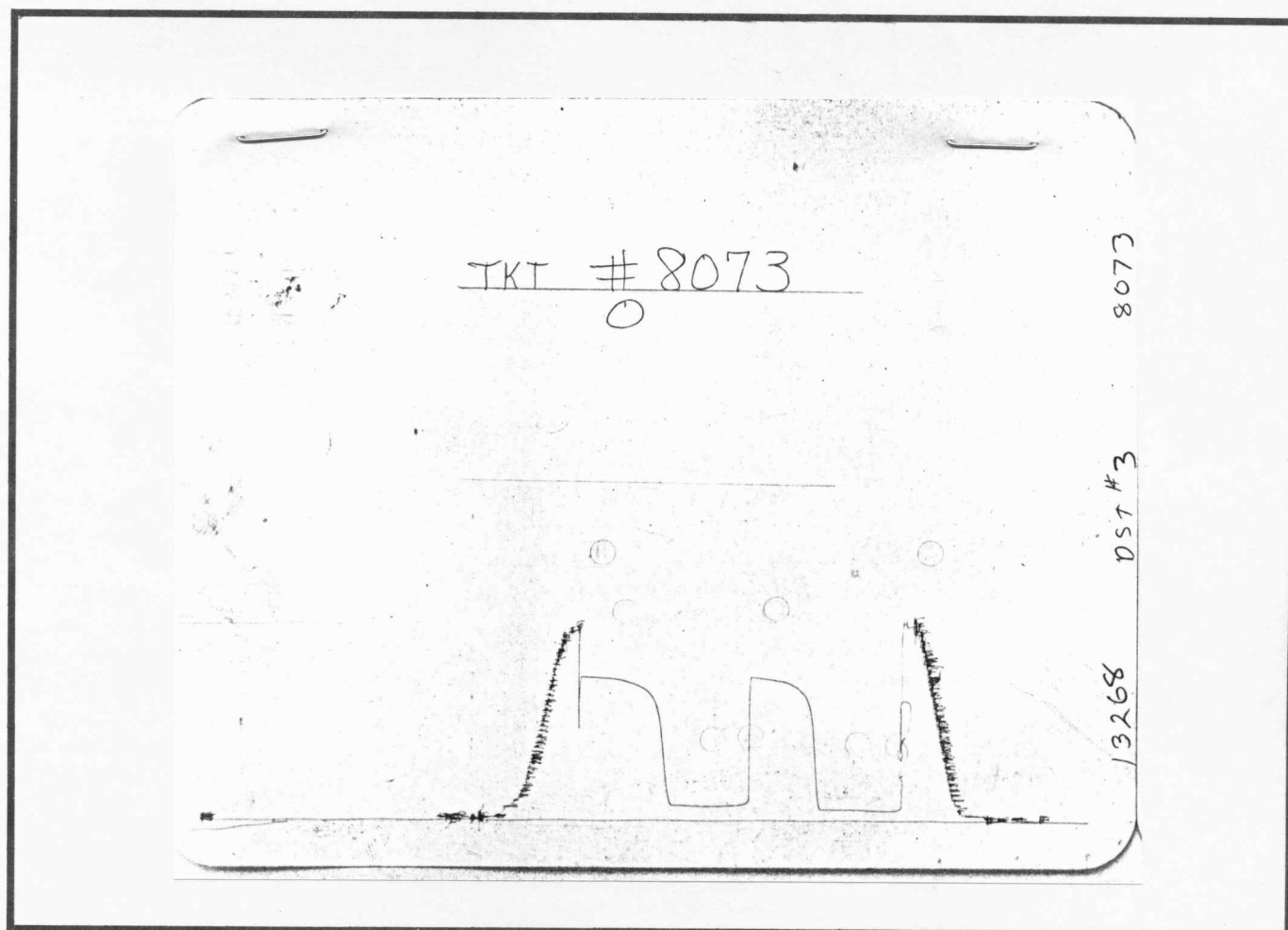
RECOVERED: 100 FT OF: MUDDY SALT WATER WITH A VERY SLIGHT SHOW OF OIL
RECOVERED: FT OF: 34% RESISTIVITY AT 75 DEGREES.
RECOVERED: FT OF: CHLORIDES 26000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 2:00 AM
WELL TEMPERATURE: 105 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1116 PSI
INITIAL FLOW PERIOD MIN: 65 (B) 43 PSI TO (C) 52 PSI
INITIAL CLOSED IN PERIOD MIN: 51 (D) 800 PSI
FINAL FLOW PERIOD MIN: 60 (E) 67 PSI TO (F) 69 PSI
FINAL CLOSED IN PERIOD MIN: 72 (G) 803 PSI
FINAL HYDROSTATIC PRESSURE (H) 1096 PSI

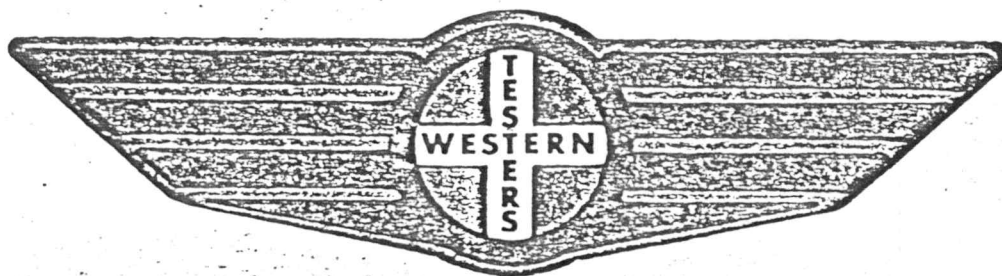


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/16/85
CUSTOMER: PAN WESTERN PETROLEUM INC.
WELL: 1 TEST: 4
ELEVATION (KB): 1215
SECTION: 12
RANGE: 3E
GAUGE SN #13266

TICKET #8074
LEASE: "A" WHITTED
GEOLOGIST: ARD
FORMATION: SIMPSON
TOWNSHIP: 29S
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 2910 FT TO: 2916 FT TOTAL DEPTH: 2916 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2910 FT SIZE: 6 3/4 IN PACKER DEPTH: 2905 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: BLUE STREAK DRLG
MUD TYPE: CHEMICAL VISCOSITY: 38
WEIGHT: 9.7 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 2400
JARS - MAKE: SERIAL NUMBER:

DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 60 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2823 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 27 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 6 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

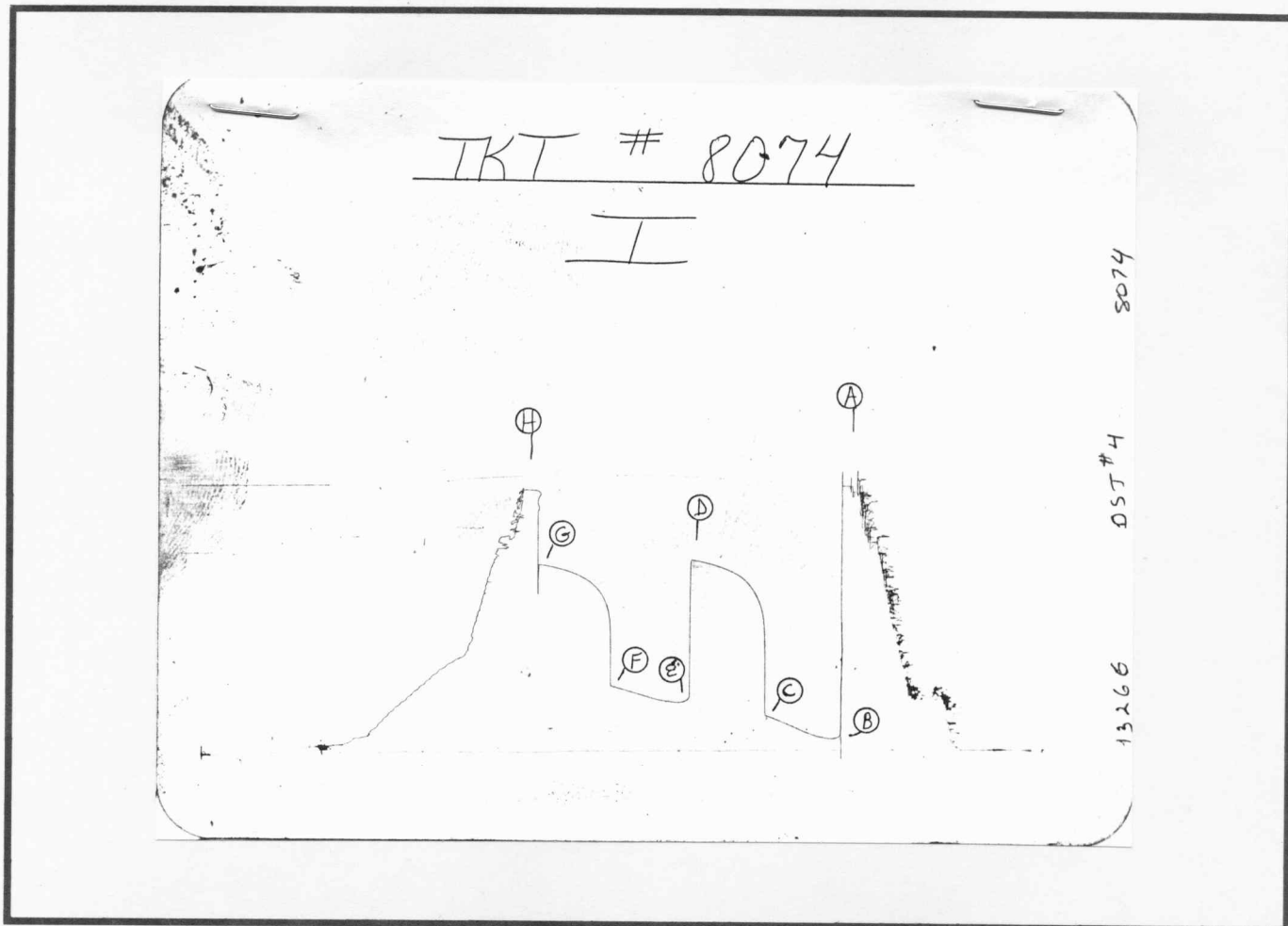
BLOW: STRONG BLOW DIMINISHING TO A FAIR
BLOW AT THE END OF THE TEST.

RECOVERED: 1050	FT	OF: FREE OIL (SLIGHTLY GAS CUT) 31 GRAVITY.
RECOVERED: 75	FT	OF: OIL CUT MUD.
RECOVERED:	FT	OF: RESISTIVITY 5.4 AT 68 DEGREES.
RECOVERED:	FT	OF: CHLORIDES 11000 PPM.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

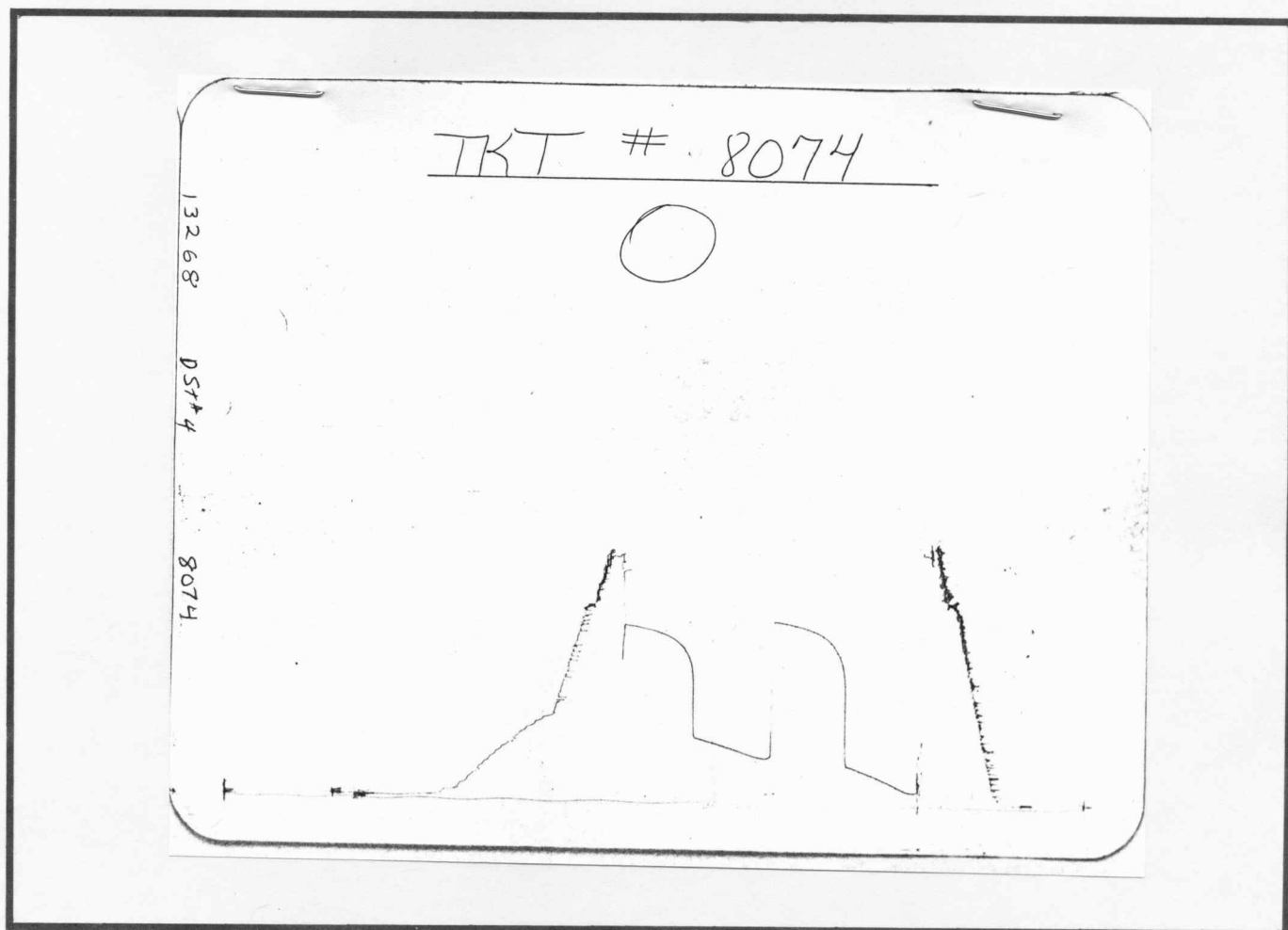
REMARKS:

TIME SET PACKER(S): 4:00 AM
WELL TEMPERATURE: 114 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 60
INITIAL CLOSED IN PERIOD MIN: 57
FINAL FLOW PERIOD MIN: 60
FINAL CLOSED IN PERIOD MIN: 57
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 8:00 AM
(A) 1453 PSI
(B) 68 PSI TO (C) 200 PSI
(D) 1056 PSI
(E) 274 PSI TO (F) 368 PSI
(G) 1036 PSI
(H) 1441 PSI



Inside Recorder



Outside Recorder