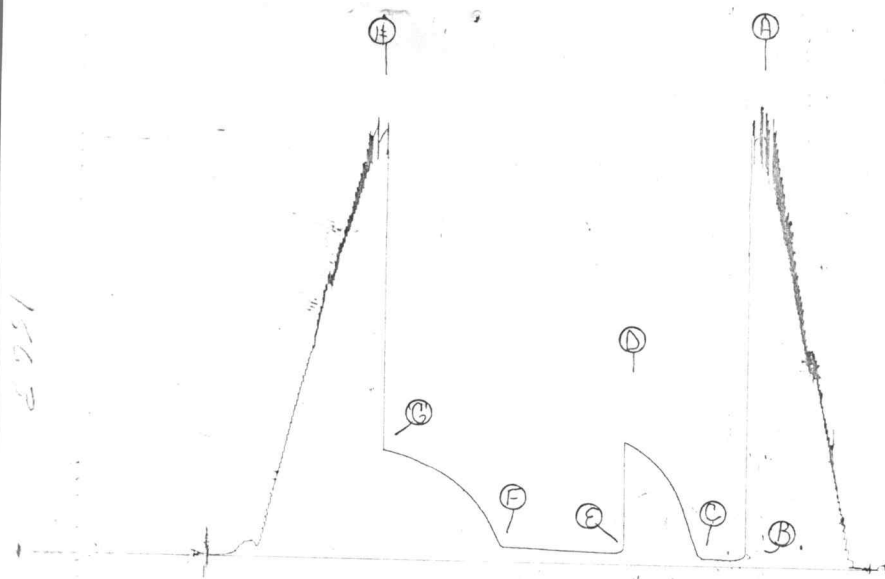


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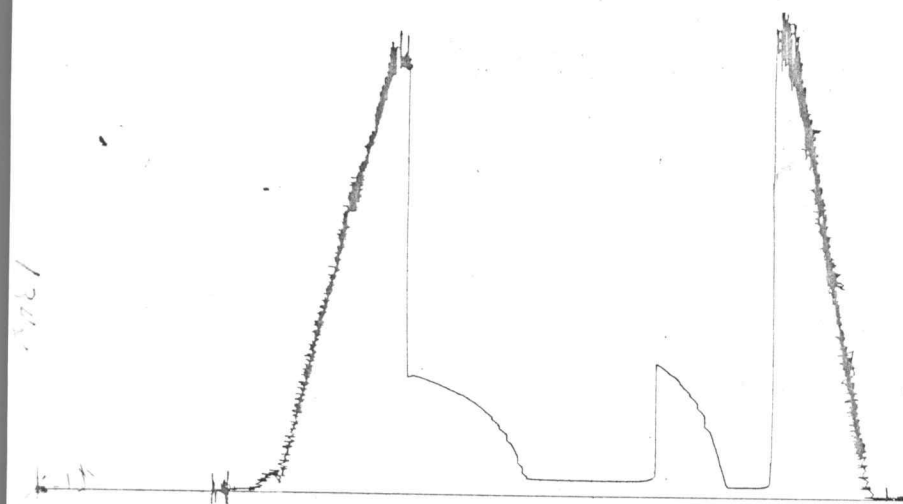
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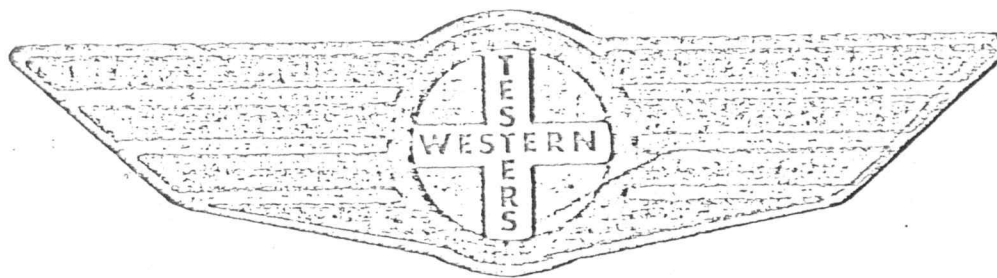
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

PICKRELL DRILLING COMPANY
Lease and Well No. #1 "A" TOMBAUGH
Sec. 31 Twp. 20S Rge. 20W Test No. 1 Date 6/3/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/3/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1 TEST: 1
ELEVATION (KB): 2236 FORMATION: MISSISSIPPI
SECTION: 31 TOWNSHIP: 20S
RANGE: 20W COUNTY: PAWNEE STATE: KANSAS
GAUGE SN #1563 RANGE: 4200 CLOCK: 12

INTERVAL TEST FROM: 4371 FT TO: 4383 FT TOTAL DEPTH: 4383 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4366 FT SIZE: 6 5/8 IN Packer DEPTH: 4371 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: STARCH VISCOSITY: 49
WEIGHT: 9.7 WATER LOSS (CC): 8.4
CHLORIDES (P.P.M.): 18000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4169 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 12 FT SIZE: 5 1/2 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 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING
TO A STRONG BLOW IN 4 MINUTES.
FINAL FLOW PERIOD WEAK BLOW BUILDING
TO A STRONG BLOW IN 20 MINUTES.

RECOVERED: 630 FT OF: GAS ABOVE FLUID.
RECOVERED: 30 FT OF: OIL & GAS CUT MUD.
RECOVERED: FT OF: 86% MUD; 2% WATER; 10% OIL; 2% GAS=.15 BBLS.
RECOVERED: 60 FT OF: HEAVY OIL & GAS CUT MUD.
RECOVERED: FT OF: 59% MUD; 5% WATER; 22% OIL; 14% GAS=.30 BBLS.
RECOVERED: 60 FT OF: MUDDY GASSY OIL.
RECOVERED: FT OF: 13% MUD; 7% WATER; 44% OIL; 36% GAS=.30 BBLS.
RECOVERED: 150 FT OF: TOTAL FLUID = .75 BBLS.
RECOVERED: FT OF: CHLORIDES 35000 PPM.

REMARKS:

TIME SET PACKER(S): 10:45 PM TIME STARTED OFF BOTTOM: 3:15 AM
WELL TEMPERATURE: 114 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2418 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 34 PSI TO (C) 38 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 678 PSI
FINAL FLOW PERIOD MIN: 90 (E) 62 PSI TO (F) 81 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 612 PSI
FINAL HYDROSTATIC PRESSURE (H) 2369 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/3/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1 TEST: 1
ELEVATION (KB): 2236
SECTION: 31
RANGE: 20W COUNTY: P
GAUGE SN #1563 RANGE: 42

TICKET #4973
LEASE: "A" TOMBAUGH
GEOLOGIST: BECKER
MISSISSIPPI
205
STATE: KANSAS
CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2418	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	34	PSI
(C)	FIRST FINAL FLOW PRESSURE:	38	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	678	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	62	PSI
(F)	SECOND FINAL FLOW PRESSURE:	81	PSI
(G)	FINAL CLOSED-IN PRESSURE:	612	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2369	PSI
WELL TEMPERATURE:		114	'F
OPEN TOOL: 10:45 PM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	90 MIN	90 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

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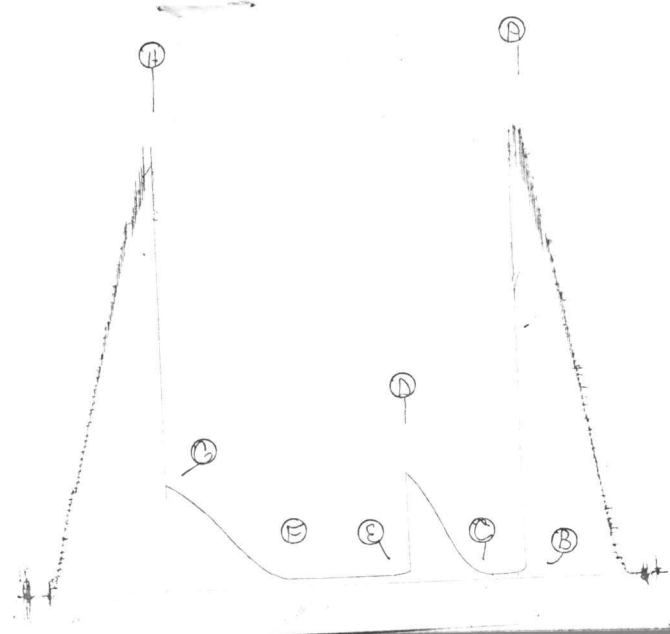
PRESSURE BREAKDOWN - CONT. TICKET #4973

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
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TKT# 4974

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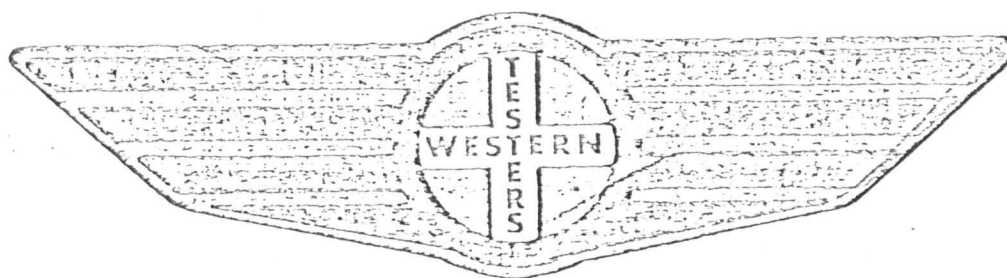
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease and Well No. #1 "A" TOMBAUGH Sec. 31 Twp. 20S Rge. 20W Test No. 3 Date 6/4/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/4/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1 TEST: 2
ELEVATION (KB): 2236 FORMATION: MISSISSIPPI
SECTION: 31 TOWNSHIP: 20S
RANGE: 20W COUNTY: PAWNEE STATE: KANSAS
GAUGE SN #1563 RANGE: 4200 CLOCK: 12

INTERVAL TEST FROM: 4383 FT TO: 4391 FT TOTAL DEPTH: 4391 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4378 FT SIZE: 6 5/8 IN PACKER DEPTH: 4383 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: STARCH VISCOSITY: 48
WEIGHT: 9.7 WATER LOSS (CC): 9.2
CHLORIDES (P.P.M.): 22000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4181 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 8 FT SIZE: 5 1/2 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 XH IN

BLOW: INITIAL FLOW PERIOD VERY WEAK 1/4" BLOW.
FINAL FLOW PERIOD VERY WEAK BLOW.

RECOVERED: 65 FT OF: OIL & GAS CUT MUD.
RECOVERED: FT OF: 12% OIL; 16% GAS; 4% WATER; 68% MUD.
RECOVERED: FT OF: = .32 BBLS.
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): 3:15 PM TIME STARTED OFF BOTTOM: 7:45 PM
WELL TEMPERATURE: 115 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2453 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 28 PSI TO (C) 28 PSI
INITIAL CLOSED IN PERIOD MIN: 57 (D) 612 PSI
FINAL FLOW PERIOD MIN: 90 (E) 39 PSI TO (F) 44 PSI
FINAL CLOSED IN PERIOD MIN: 87 (G) 589 PSI
FINAL HYDROSTATIC PRESSURE (H) 2449 PSI

PRESSURE DATA

DATE: 6/4/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1 TEST: 2
ELEVATION (KB): 2236
SECTION: 31
RANGE: 20W COUNTY: P
GAUGE SN #1563 RANGE: 42

TICKET #4974
LEASE: "A" TOMBAUGH
GEOLOGIST: BECKER
MISSISSIPPI
205
STATE: KANSAS
CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2453	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	28	PSI
(C)	FIRST FINAL FLOW PRESSURE:	28	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	612	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	39	PSI
(F)	SECOND FINAL FLOW PRESSURE:	44	PSI
(G)	FINAL CLOSED-IN PRESSURE:	589	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2449	PSI
WELL TEMPERATURE:		115	'F
OPEN TOOL: 3:15 PM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	57 MIN
SECOND FLOW PRESSURE:	90 MIN	90 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	87 MIN

PRESSURE BREAKDOWN

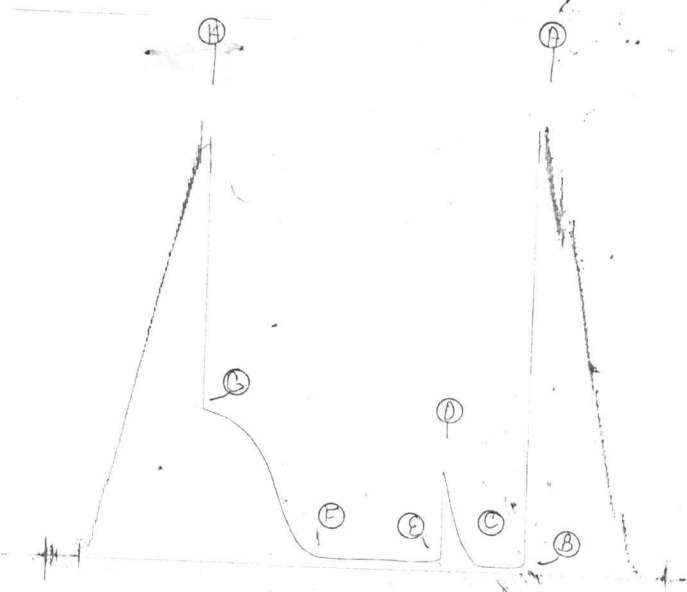
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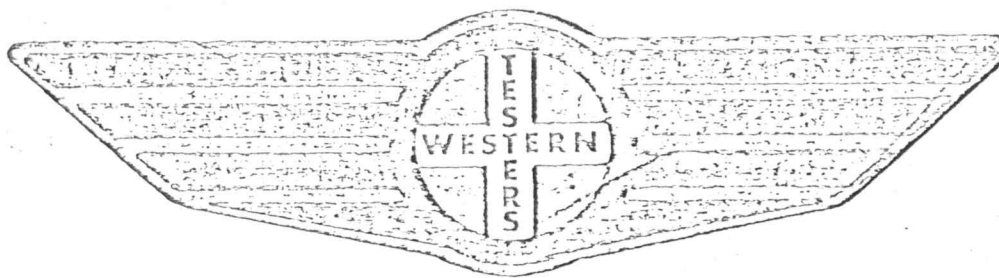
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

company PICKRELL DRILLING COMPANY Lease and Well No. #1 "A" TOMBAUGH Sec. 31 Twp. 20S Rge. 20W Test No. 3 Date 6/5/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/5/84 TICKET #4975
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: "A" TOMBAUGH
WELL: 1 TEST: 3 GEOLOGIST: BECKER
ELEVATION (KB): 2236 FORMATION: MISSISSIPPI
SECTION: 31 TOWNSHIP: 20S
RANGE: 20W COUNTY: PAWNEE STATE: KANSAS
GAUGE SN #1563 RANGE: 4200 CLOCK: 12

INTERVAL TEST FROM: 4391 FT TO: 4397 FT TOTAL DEPTH: 4397 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4386 FT SIZE: 6 5/8 IN PACKER DEPTH: 4391 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLG
MUD TYPE: STARCH VISCOSITY: 53
WEIGHT: 9.6 WATER LOSS (CC): 9.2
CHLORIDES (P.P.M.): 22000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4189 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 6 FT SIZE: 5 1/2 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 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW.
DIED IN 16 MINUTES.
FINAL FLOW PERIOD WEAK 1 INCH BLOW.

RECOVERED: 30	FT	OF: SLIGHTLY OIL & GAS CUT MUD.
RECOVERED:	FT	OF: 7% OIL; 2% WATER; 70% MUD; 21% GAS.
RECOVERED: 60	FT	OF: OIL & GAS CUT WATERY MUD.
RECOVERED:	FT	OF: 18% OIL; 20% GAS; 27% WATER; 35% MUD.
RECOVERED:	FT	OF: REC. TOTAL .45 BBLS.
RECOVERED:	FT	OF: CHLORIDES 32000 PPM.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 7:45 AM	TIME STARTED OFF BOTTOM: 11:45 AM
WELL TEMPERATURE: 115 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2432 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 30 PSI TO (C) 30 PSI
INITIAL CLOSED IN PERIOD MIN: 33	(D) 560 PSI
FINAL FLOW PERIOD MIN: 90	(E) 47 PSI TO (F) 52 PSI
FINAL CLOSED IN PERIOD MIN: 90	(G) 863 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2350 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/5/84	TICKET #4975
CUSTOMER: PICKRELL DRILLING COMPANY	LEASE: "A" TOMBAUGH
WELL: 1	GEOLOGIST: BECKER
TEST: 3	
ELEVATION (KB): 2236	FORMATION: MISSISSIPPI
SECTION: 31	TOWNSHIP: 20S
RANGE: 20W	COUNTY: PAWNEE
STATE: KANSAS	
GAUGE SN #1563	RANGE: 4200
CLOCK: 12	

(A)	INITIAL HYDROSTATIC PRESSURE:	2432	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	30	PSI
(C)	FIRST FINAL FLOW PRESSURE:	30	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	560	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	47	PSI
(F)	SECOND FINAL FLOW PRESSURE:	52	PSI
(G)	FINAL CLOSED-IN PRESSURE:	863	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2350	PSI
WELL TEMPERATURE:		115	'F
OPEN TOOL: 7:45 AM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	33 MIN
SECOND FLOW PRESSURE:	90 MIN	90 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

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PRESSURE BREAKDOWN - CONT. TICKET #4975

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	863
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