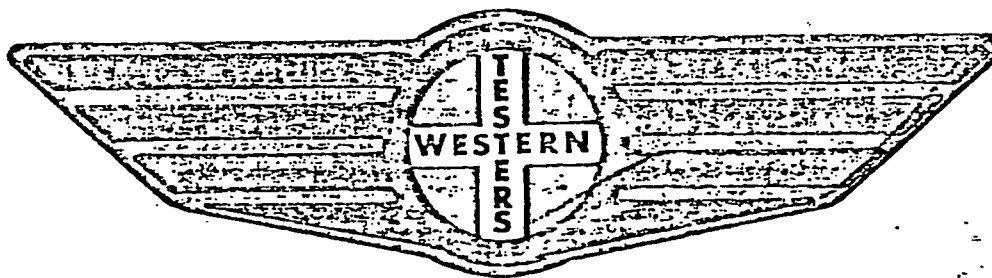


FORMATION TEST REPORT



Home Office:

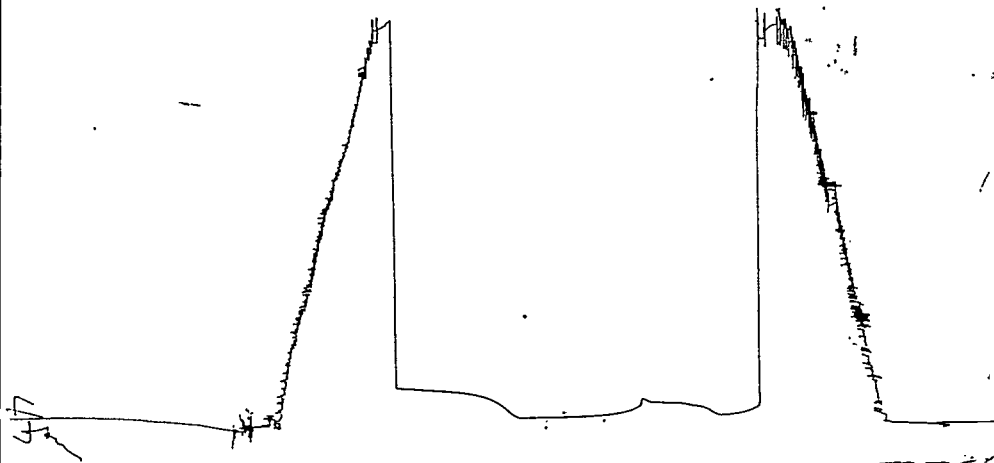
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

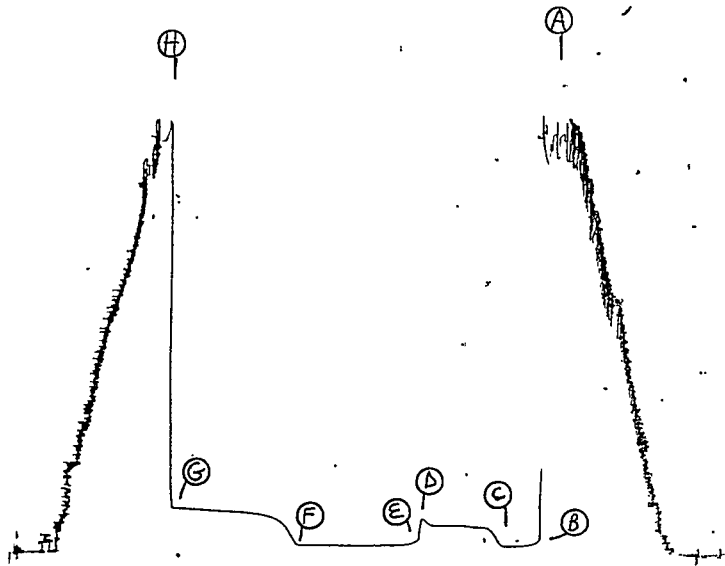
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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/1/84. TICKET #3515
CUSTOMER: PICKRELL DRILLING COMPANY LEASE: "B" CAMPBELL ESTATE
WELL: 1. TEST: 1. GEOLOGIST: RICHARDS
ELEVATION (KB): 1530 FORMATION: MISS
SECTION: 31 TOWNSHIP: 31S
RANGE: 2W COUNTY: HARPER STATE: KANSAS
GAUGE SN #13552 RANGE: 4050 CLOCK: 12
INTERVAL TEST FROM: 4353 FT TO: 4365 FT TOTAL DEPTH: 4365 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4349 FT SIZE: 6 5/8 IN PACKER DEPTH: 4353 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN
DRILLING CONTRACTOR: PICKRELL #10
MUD TYPE: DRISPAQ VISCOSITY: 45
WEIGHT: 9.3 WATER LOSS (CC): 8.8
CHLORIDES (P.P.M.): 14000
JARS - MAKE: W.T.C. SERIAL NUMBER: 410
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4147 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 26 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 12 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: INITIAL FLOW PERIOD WEAK INCREASED
TO STRONG BLOW. FINAL FLOW PERIOD
STRONG BLOW THROUGHOUT.

RECOVERED: 60 FT OF: DRLG MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
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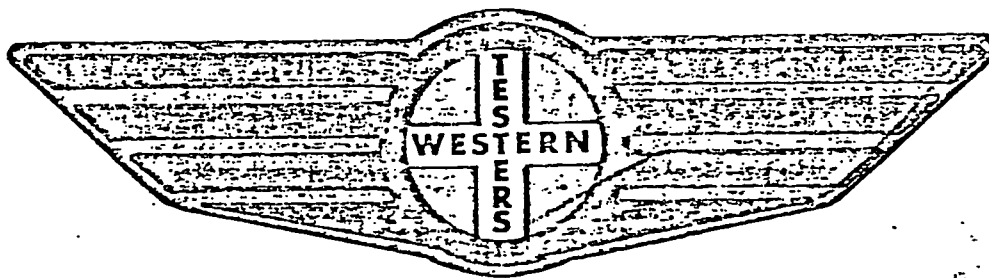
REMARKS: READ OUTSIDE CHART.

TIME SET PACKER(S): 1:10 P.M. TIME STARTED OFF BOTTOM: 5:40 P.M.
WELL TEMPERATURE: 117 F
INITIAL HYDROSTATIC PRESSURE: (A) 2176 PSI
INITIAL FLOW PERIOD MIN: 25 (B) 52 PSI TO (C) 52 PSI
INITIAL CLOSED IN PERIOD MIN: 63 (C) 194 PSI
FINAL FLOW PERIOD MIN: 90 (E) 58 PSI TO (F) 58 PSI
FINAL CLOSED IN PERIOD MIN: 93 (G) 246 PSI
FINAL HYDROSTATIC PRESSURE (H) 2145 PSI

PRESSURE BREAKDOWN - CONT. TICKET #3515

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	245
32							93	246
33								
34								
35								
36								
37								
38								
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40								
41								
42								
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44								
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FORMATION TEST REPORT



Home Office:

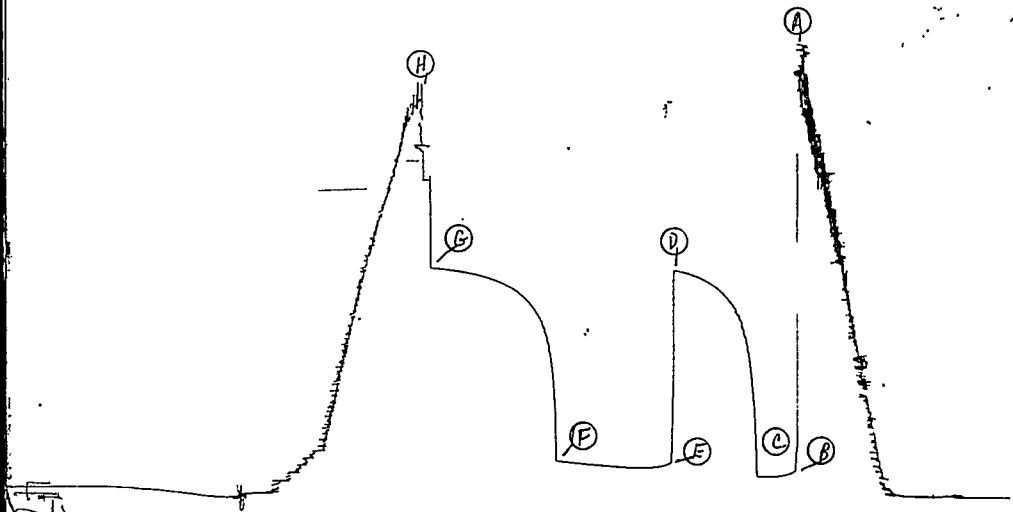
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

TKT # 3516

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/2/84.

CUSTOMER: PICKRELL DRILLING COMPANY

WELL: 1

TEST: 2

ELEVATION (KB): 1530

FORMATION: MISS

SECTION: 31

TOWNSHIP: 31S

RANGE: 9W

COUNTY: HARPER

STATE: KANSAS

GAUGE SN #13547

RANGE: 4225

CLOCK: 12

TICKET #3516

LEASE: "A" CAMPBELL ESTATE

GEOLOGIST: RICHARDS

INTERVAL TEST FROM: 4365

FT TO: 4375

FT TOTAL DEPTH: 4375

FT

DEPTH OF SELECTIVE ZONE:

FT

PACKER DEPTH: 4360

FT

SIZE: 6 5/8 IN

PACKER DEPTH: 4365

FT

SIZE: 6 5/8 IN

PACKER DEPTH:

FT

SIZE: IN

PACKER DEPTH:

FT

SIZE: IN

DRILLING CONTRACTOR: PICKRELL #10

MUD TYPE: DRISPA

VISCOSITY: 45

WEIGHT: 9.3

WATER LOSS (CC): 8.8

CHLORIDES (P.P.M.): 14000

SERIAL NUMBER: 405

JARS - MAKE: W.T.C.

DID WELL FLOW? YES

REVERSED OUT? NO

DRILL COLLAR LENGTH: 180

FT

I.D.: 2.25

IN

WEIGHT PIPE LENGTH:

FT

I.D.:

IN

DRILL PIPE LENGTH: 4159

FT

I.D.: 3.8

IN

TEST TOOL LENGTH: 26

FT

TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: 10

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: STRONG BLOW THROUGHOUT FLOW PERIODS.

GAS TO SURFACE IN 30 MINUTES ON

PRE FLOW.

RECOVERED: 186	FT	OF: HVY OIL CUT WTRY MUD. 40% OIL; 20% WTR 40% MUD.
RECOVERED: 62	FT	OF: OIL CUT WATER.
RECOVERED: 124	FT	OF: MUDDY WATER.
RECOVERED: 124	FT	OF: SALT WATER.
RECOVERED:	FT	OF: CHLORIDES 125000 P.P.M.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 4:20 A.M.

TIME STARTED OFF BOTTOM: 9:50 A.M.

WELL TEMPERATURE: 117 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 2202

PSI

INITIAL FLOW PERIOD

MIN: 30

(B) 113

PSI TO (C) 114

PSI

INITIAL CLOSED IN PERIOD

MIN: 60

(D) 1234

PSI

FINAL FLOW PERIOD

MIN: 85

(E) 164

PSI TO (F) 201

PSI

FINAL CLOSED IN PERIOD

MIN: 93

(G) 1249

PSI

FINAL HYDROSTATIC PRESSURE

(H) 2159

PSI

PRESSURE BREAKDOWN - CONT. TICKET #3516

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1248
32							93	1249
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WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 2/2/84

CUSTOMER: PICKRELL DRILLING COMPANY

WELL: 1

TEST: 2

ELEVATION (KB): 1530

FORMATION: MISS

SECTION: 31

TOWNSHIP: 31S

RANGE: 9N

COUNTY: HARPER

STATE: KANSAS

GAUGE SN #13547

RANGE: 4225

CLOCK: 12

TICKET #3516

LEASE: "A" CAMPBELL ESTATE

GEOLOGIST: RICHARDS

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

30 GAS TO SURFACE IN 30 MINUTES:

SECOND FLOW

5	MERLA	3/4	26" WTR	72400 CFPD
10		3/4	16" WTR	56800 " "
20		3/4	12" WTR	49300 " "
30		"	"	49300 " "
40		"	"	49300 " "
50		"	"	49300 " "
60		"	"	49300 " "
70		"	"	49300 " "
80		"	"	49300 " "
90		"	"	49300 " "

GAS BOTTLE SN #:

DATE BOTTLE FILLED:

DATE TO BE INVOICED: