

Lanning

FORMATION TEST REPORT



Home Office:

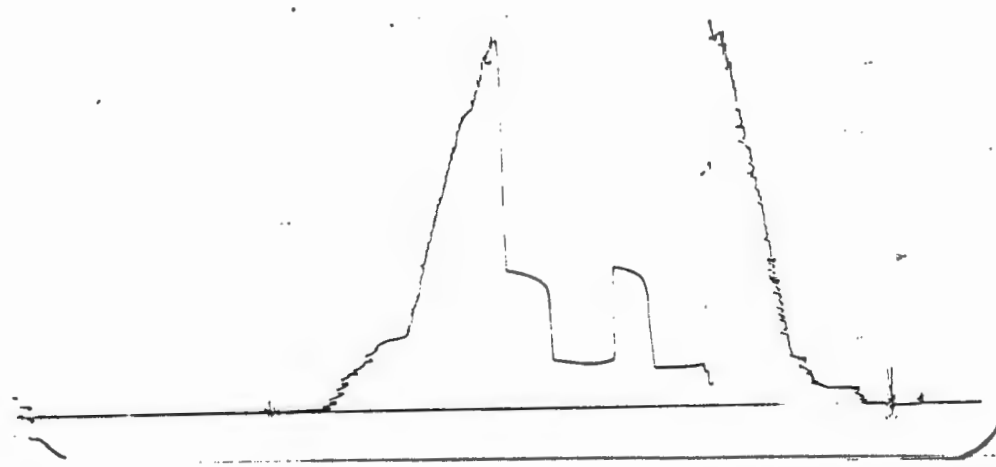
P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

TIT# 4384

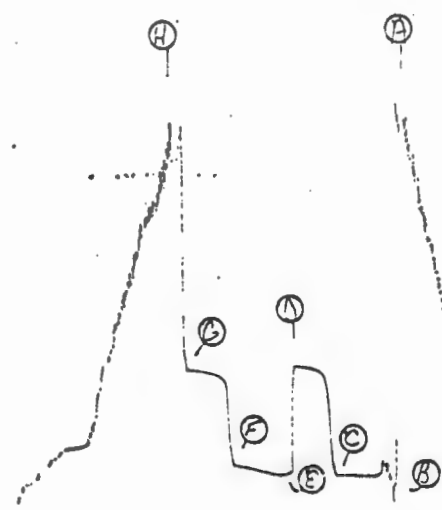
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Inside Recorder

TIT# 4384

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Outside Recorder

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/23/84

CUSTOMER: BROOKS CORPORATION

WELL: 4

ELEVATION (KB): 0

SECTION: 9

RANGE: 11W

GAUGE SN #13552

TEST: 1

COUNTY: STAFFORD

RANGE: 4050

TICKET #4384

LEASE: MAXIE G. FIGGER

GEOLOGIST: BEARD

FORMATION:

TOWNSHIP: 24S

STATE: KANSAS

CLOCK: 12

INTERVAL TEST FROM: 3804

FT TO: 3818

FT

TOTAL DEPTH: 3818

FT

DEPTH OF SELECTIVE ZONE:

FT

PACKER DEPTH: 3799

FT

SIZE: 6 5/8 IN

PACKER DEPTH: 3804

FT

SIZE: 6 5/8 IN

PACKER DEPTH:

FT

SIZE:

IN

PACKER DEPTH:

FT

SIZE:

IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON

MUD TYPE: STARCH

VISCOSITY: 49

WEIGHT: 9.9

WATER LOSS (CC): 12.8

CHLORIDES (P.P.M.): 52000

JARS - MAKE:

SERIAL NUMBER:

DID WELL FLOW? NO

REVERSED OUT? NO

DRILL COLLAR LENGTH: 520

FT

I.D.: 2.25

IN

WEIGHT PIPE LENGTH:

FT

I.D.:

IN

DRILL PIPE LENGTH: 3263

FT

I.D.: 3.8

IN

TEST TOOL LENGTH: 21

FT

TOOL SIZE: 5 1/2 OD

0.14 0.25 / 3.2222

ANCHOR LENGTH: 14

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 THROUGHOUT TEST.

RECOVERED: 270

FT

OF: HEAVY OIL & GAS CUT MUD. 45% OIL; 20% WATER.

RECOVERED: 180

FT

OF: FOGGY GASSY WATERY OIL. 90% OIL; 10% WATER.

RECOVERED: 60

FT

OF: OIL CUT MUDDY WATER. 10% OIL; 60% WATER.

RECOVERED: 240

FT

OF: SLIGHTLY OIL CUT SALT WATER. 5% OIL; 90% WATER.

RECOVERED: 700

FT

OF: CHLORIDES 70000 PPM.

RECOVERED:

FT

OF:

RECOVERED:

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OF:

RECOVERED:

FT

OF:

RECOVERED:

FT

OF:

REMARKS: PLUGGING ACTION ON INITIAL FLOW PERIOD.

READ OUTSIDE CHART.

TIME SET PACKER(S): 12:30 AM

TIME STARTED OFF BOTTOM: 3:00 AM

WELL TEMPERATURE: 118 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 1975

PSI

INITIAL FLOW PERIOD

MIN: 45

(B) 184

PSI TO (C) 236

PSI

INITIAL CLOSED IN PERIOD

MIN: 30

(D) 799

PSI

FINAL FLOW PERIOD

MIN: 45

(E) 239

PSI TO (F) 293

PSI

FINAL CLOSED IN PERIOD

MIN: 33

(G) 784

PSI

FINAL HYDROSTATIC PRESSURE

(H) 1957

PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 5/23/84

CUSTOMER: BROOKS CORPORATION

WELL: 4

ELEVATION (KB): 0

SECTION: 9

RANGE: 11W

GAUGE SN #13552

TEST: 1

FORMATION:

TOWNSHIP: 24S

COUNTY: STAFFORD

RANGE: 4050

TICKET #4384

LEASE: MAXIE G. FIGGER

GEOLOGIST: BEARD

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 1975 PSI
(B) FIRST INITIAL FLOW PRESSURE: 184 PSI
(C) FIRST FINAL FLOW PRESSURE: 236 PSI
(D) INITIAL CLOSED-IN PRESSURE: 799 PSI
(E) SECOND INITIAL FLOW PRESSURE: 239 PSI
(F) SECOND FINAL FLOW PRESSURE: 293 PSI
(G) FINAL CLOSED-IN PRESSURE: 784 PSI
(H) FINAL HYDROSTATIC PRESSURE: 1957 PSI
WELL TEMPERATURE: 118 °F
OPEN TOOL: 12:30 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	45 MIN	45 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	30 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	30 MIN	33 MIN

$t = 4$ $t = \Delta t$

PRESSURE BREAKDOWN

$t = 90$ $t = \Delta t$

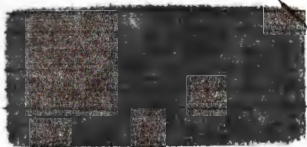
PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	184	0	236 ΔP	0	239	0	293 ΔP
2	5	210	3	329 93	5	239	3	455 102
3	10	315	6	640 404	10	239	6	719 426
4	15	231	9	683 447	15	247	9	743 450
5	20	232	12	768 522	20	257	12	755 452
6	25	233	15	778 542	25	266	15	761 458
7	30	234	18	785 549	30	275	18	765 472
8	35	235	21	791 555	35	284	21	769 476
9	40	236	24	795 559	40	289	24	773 480
10	45	236	27	797 561	45	293	27	777 484
11			30	799 562			30	781 488
12							33	784 491
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