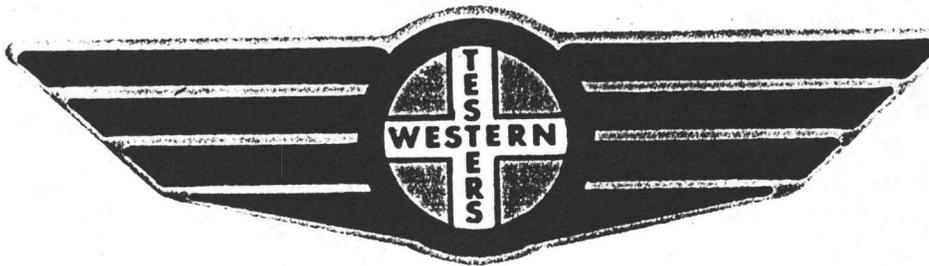


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY DIETER PRODUCTION COMPANY LEASE & WELL NO. PUTNAM #3 SEC. 3 TWP. 17S RGE. 13W TEST NO. 1 DATE 7/16/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-16-88
CUSTOMER : DIETER PRODUCTION COMPANY
WELL : #3 TEST: 1
ELEVATION : 1929 KB
SECTION : 3
RANGE : 13W COUNTY : BARTON
GAUGE SN# : 1049 RANGE : 4250
TICKET : 14557
LEASE : PUTNAM
GEOLOGIST : D DIETER
FORMATION : ARBUCKLE
TOWNSHIP : 17S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3365 TO : 3388 TOTAL DEPTH : 3388
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3360 SIZE : 6.63
PACKER DEPTH : 3365 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : LOBO RIG 1
MUD TYPE : STARCH VISCOSITY : 43
WEIGHT : 9.7 WATER LOSS (CC) : 22.6
CHLORIDES (PPM) : 53000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 444 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2897 FT I.D. inch : 3.80
TEST TOOL LENGTH : 24 FT TOOL SIZE : 4.50
ANCHOR LENGTH : 23 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE :
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : INITIAL FLOW-2" BLOW DECREASED IN 30 MINUTES TO 1/4".
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: DRILLING MUD

Total Barrels Fluid = 0.11
Total Fluid Prod Rate = 3.40 BFPD
Indicated Wtr Rate = 0.34 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 4:45 AM

TIME STARTED OFF BOTTOM : 6:30 AM

WELL TEMPERATURE : 111

INITIAL HYDROSTATIC PRESSURE

(A) 1753

INITIAL FLOW PERIOD MIN: 30

(B) 40 PSI TO (C) : 29

INITIAL CLOSED IN PERIOD MIN: 60

(D) 41

FINAL FLOW PERIOD MIN: 15

(E) 41 PSI TO (F) : 41

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 1726

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : DIETER PRODUCTION COMPANY
RIG : BARTON-KANSAS
FIELD : PUTNAM
WELL : #3
DATE : 7-16-88
GAUGE NO : 1049

OPERATIONAL COMMENTS

COMPANY : DIETER PRODUCTION COMPANY
WELL : #3
GAUGE # : 1049
DATE : 16/ 7/88

FIELD : RUTNAM
JOB # : 14557
DEPTH : 3388
TEST :

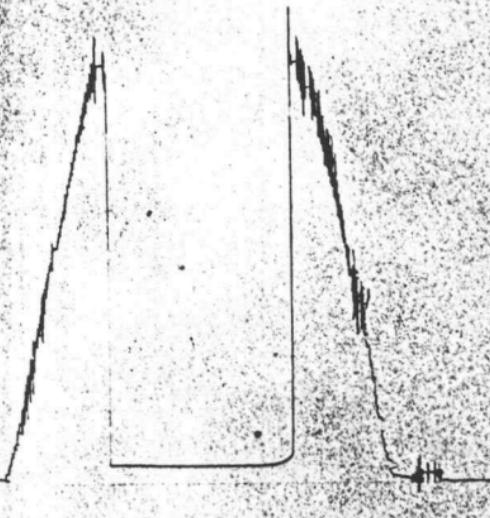
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
1	4:45: 0	0.000	40.000	111.00	0.000
2	4:49:59	0.083	40.000	111.00	0.000
3	4:55: 0	0.167	39.000	111.00	-1.000
4	5: 0: 0	0.250	33.000	111.00	-6.000
5	5: 4:59	0.333	29.000	111.00	-4.000
6	5:10: 0	0.417	29.000	111.00	0.000
7	5:15: 0	0.500	29.000	111.00	0.000
8	5:18: 0	0.550	29.000	111.00	0.000
9	5:21: 0	0.600	29.000	111.00	0.000
10	5:24: 0	0.650	30.000	111.00	1.000
11	5:27: 0	0.700	31.000	111.00	1.000
12	5:30: 0	0.750	32.000	111.00	1.000
13	5:33: 0	0.800	33.000	111.00	1.000
14	5:36: 0	0.850	33.000	111.00	0.000
15	5:39: 0	0.900	33.000	111.00	0.000
16	5:42: 0	0.950	33.000	111.00	0.000
17	5:45: 0	1.000	33.000	111.00	0.000
18	5:48: 0	1.050	34.000	111.00	1.000
19	5:51: 0	1.100	35.000	111.00	1.000
20	5:54: 0	1.150	37.000	111.00	2.000
21	5:57: 0	1.200	38.000	111.00	1.000
22	6: 0: 0	1.250	39.000	111.00	1.000
23	6: 3: 0	1.300	40.000	111.00	1.000
24	6: 6: 0	1.350	41.000	111.00	1.000
25	6: 9: 0	1.400	41.000	111.00	0.000
26	6:12: 0	1.450	41.000	111.00	0.000
27	6:15: 0	1.500	41.000	111.00	0.000
28	6:16: 0	1.517	41.000	111.00	0.000
29	6:19:59	1.583	41.000	111.00	0.000
30	6:25: 0	1.667	41.000	111.00	0.000
31	6:30: 0	1.750	41.000	111.00	0.000

WESTERN TESTING CO. INC.

JK # 14557

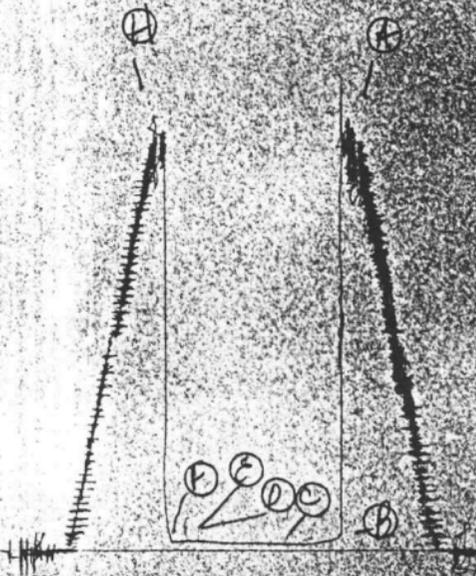
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Sk # 14557

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14557