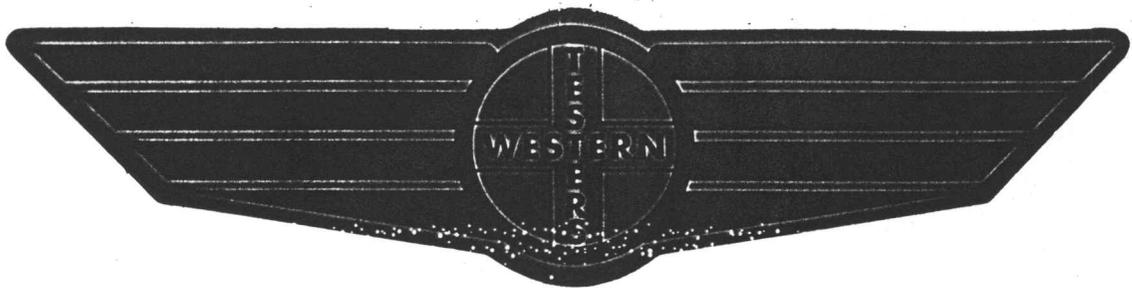


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MID-AMERICAN HYDROCARBON INC. LEASE & WELL NO. #1 DORAN SEC. 33 TWP. 24 RGE. 15W TEST NO. 1 DATE 1/18/87

WESTERN TESTERS INC
SUBSURFACE PRESSURE SURVEY

DATE : 1/18/87 TICKET : 13170
CUSTOMER : MID-AMERICAN HYDROCARBON INC. LEASE : DORAN
WELL : 1 TEST: 1 GEOLOGIST : DEBOER
ELEVATION : 2030 FORMATION : ARBUCKLE
SECTION : 33 TOWNSHIP : 24
RANGE : 15W COUNTY : STAFFORD STATE : KANSAS
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 4326 TO : 4408 TOTAL DEPTH : 4408
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4321 SIZE : 6.63
PACKER DEPTH : 4326 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BOGER RIG 1
MUD TYPE : CHEMICAL VISCOSITY : 58
WEIGHT : 9.3 WATER LOSS (CC) : 14.4
CHLORIDES (PPM) : 8200
JARS-MAKE : WESTERN SERIAL NUMBER : 417
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4298 FT I.D. inch : 3.80
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 82 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-WEAK 1/2" BLOW TO A GOOD
BLOW COMMENT #2 : 6" BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD-FAIR 4" BLOW TO A GOOD 8"
BLOW COMMENT #4 : BLOW.

RECOVERED : 45 FT OF: HEAVY OIL & GAS CUT MUD
 RECOVERED : 0 FT OF: (35% OIL 5% GAS 60% MUD)
 RECOVERED : 60 FT OF: MUDDY GASSY OIL
 RECOVERED : 0 FT OF: (49% OIL 13% GAS 38% MUD)

Total Barrels Fluid = 1.47
 Total Fluid Prod Rate = 35.35 BFPD
 Indicated Oil Rate = 15.20 BOPD
 Indicated Wtr Rate = 15.15 BWPD
 Corrected Oil Rate = 22.46 BOPD
 Corrected Wtr Rate = 22.38 BWPD

REMARK 1 :
 REMARK 2 : 195 FT OF GAS ABOVE FLUID.
 REMARK 3 :
 REMARK 4 :

SET PACKER(S) :	2:45 PM	TIME STARTED OFF BOTTOM :	5:30 PM
WELL TEMPERATURE :	119		
INITIAL HYDROSTATIC PRESSURE		(A)	2254
INITIAL FLOW PERIOD MIN:	30	(B)	79 PSI TO (C) : 79
INITIAL CLOSED IN PERIOD MIN:	45	(D)	992
FINAL FLOW PERIOD MIN:	30	(E)	104 PSI TO (F) : 104
FINAL CLOSED IN PERIOD MIN:	60	(G)	1295
FINAL HYDROSTATIC PRESSURE		(H)	2207

WESTERN TESTERS INC
WITICHA - KANSAS

Pressure Transient Report

COMPANY : MID-AMERICAN HYDROCARBON INC.
RIG : STAFFORD-KANSAS
FIELD : DORAN
WELL : 1
DATE : 1/18/87
GAUGE NO : 10270

OPERATIONAL COMMENTS

195 FT OF GAS ABOVE FLUID.

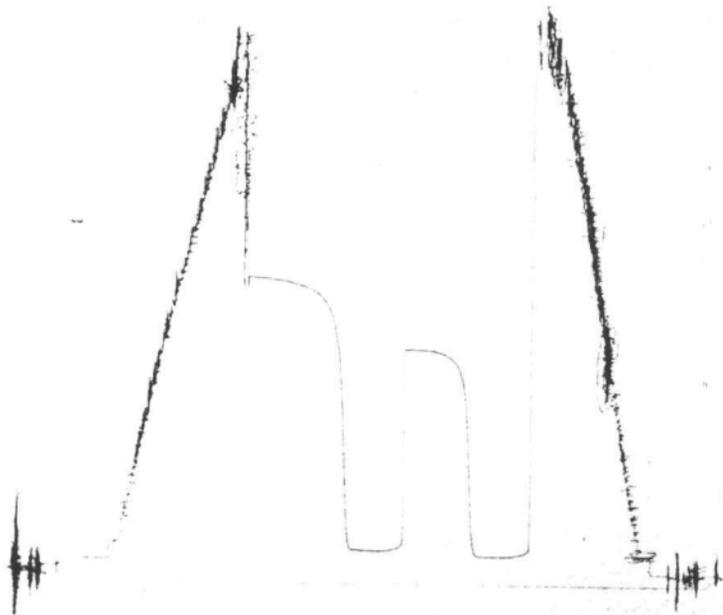
COMPANY : MID-AMERICAN HYDROCARBON INC.
 WELL : 1
 GAUGE # : 10270
 DATE : 18/ 1/87

FIELD : DORAN
 JOB # : 13170
 DEPTH : 4408
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:45: 0	0.000	79.000	119.00	0.000
2	2:49:59	0.083	79.000	119.00	0.000
3	2:55: 0	0.167	79.000	119.00	0.000
4	3: 0: 0	0.250	79.000	119.00	0.000
5	3: 4:59	0.333	79.000	119.00	0.000
6	3:10: 0	0.417	79.000	119.00	0.000
7	3:15: 0	0.500	79.000	119.00	0.000
8	3:18: 0	0.550	143.000	119.00	64.000
9	3:21: 0	0.600	403.000	119.00	260.000
10	3:24: 0	0.650	771.000	119.00	368.000
11	3:27: 0	0.700	907.000	119.00	136.000
12	3:30: 0	0.750	948.000	119.00	41.000
13	3:33: 0	0.800	968.000	119.00	20.000
14	3:36: 0	0.850	977.000	119.00	9.000
15	3:39: 0	0.900	983.000	119.00	6.000
16	3:42: 0	0.950	986.000	119.00	3.000
17	3:45: 0	1.000	987.000	119.00	1.000
18	3:48: 0	1.050	988.000	119.00	1.000
19	3:51: 0	1.100	989.000	119.00	1.000
20	3:54: 0	1.150	990.000	119.00	1.000
21	3:57: 0	1.200	991.000	119.00	1.000
22	4: 0: 0	1.250	992.000	119.00	1.000
23	4: 1: 0	1.267	104.000	119.00	-888.000
24	4: 4:59	1.333	104.000	119.00	0.000
25	4:10: 0	1.417	104.000	119.00	0.000
26	4:15: 0	1.500	104.000	119.00	0.000
27	4:19:59	1.583	104.000	119.00	0.000
28	4:25: 0	1.667	104.000	119.00	0.000
29	4:30: 0	1.750	104.000	119.00	0.000
30	4:33: 0	1.800	345.000	119.00	241.000
31	4:36: 0	1.850	809.000	119.00	464.000
32	4:39: 0	1.900	1041.000	119.00	232.000
33	4:42: 0	1.950	1144.000	119.00	103.000
34	4:45: 0	2.000	1189.000	119.00	45.000
35	4:48: 0	2.050	1218.000	119.00	29.000
36	4:51: 0	2.100	1238.000	119.00	20.000
37	4:54: 0	2.150	1250.000	119.00	12.000
38	4:57: 0	2.200	1258.000	119.00	8.000
39	5: 0: 0	2.250	1267.000	119.00	9.000
40	5: 3: 0	2.300	1270.000	119.00	3.000
41	5: 6: 0	2.350	1273.000	119.00	3.000
42	5: 9: 0	2.400	1278.000	119.00	5.000
43	5:12: 0	2.450	1281.000	119.00	3.000
44	5:15: 0	2.500	1284.000	119.00	3.000
45	5:18: 0	2.550	1287.000	119.00	3.000
46	5:21: 0	2.600	1289.000	119.00	2.000
47	5:24: 0	2.650	1291.000	119.00	2.000
48	5:27: 0	2.700	1293.000	119.00	2.000
49	5:30: 0	2.750	1295.000	119.00	2.000

TKT 13170

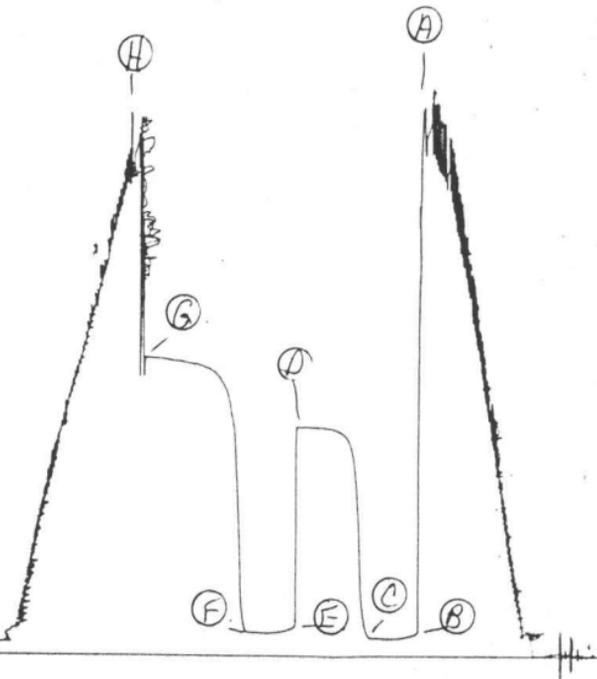
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TK# 12170

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